LAPAROSCOPY
PELVISCOPY

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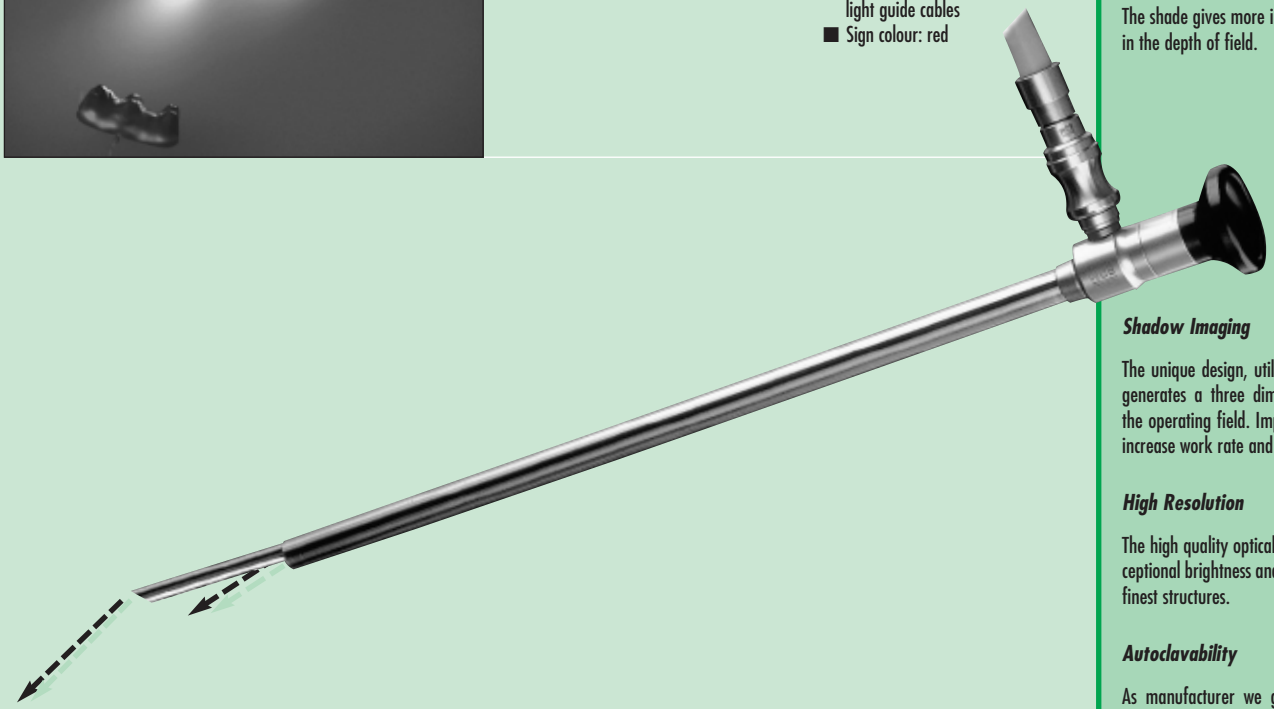
LAPALUX SHADOW-TELESCOPE II

Product	Order-No.	Description
	429-62500	**LAPALUX SHADOW-Telescope II** ■ Direction of view 30° ■ Working length: 300 mm ■ Connector for Storz/Wolf/ACMI light guide cables ■ Sign colour: red

Ø 10 mm



This Patent Telescope creates Shadow

The shade gives more information especially in the depth of field.

Shadow Imaging

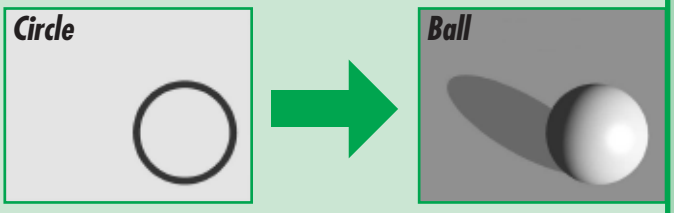
The unique design, utilising two light bundles, generates a three dimensional perception of the operating field. Improved orientation may increase work rate and safety.

High Resolution

The high quality optical system guarantees exceptional brightness and full illumination of the finest structures.

Autoclavability

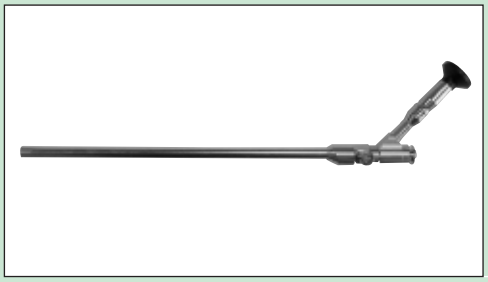
As manufacturer we guarantee full autoclavability at 134 °C/273 °F. All LAPALUX SHADOW-telescopes are manufactured from stainless steel.



Without Shade *With Shade*

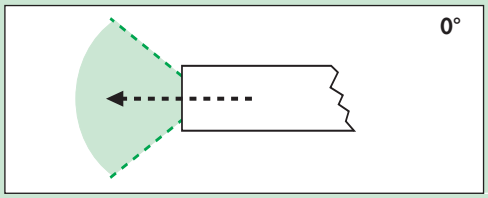
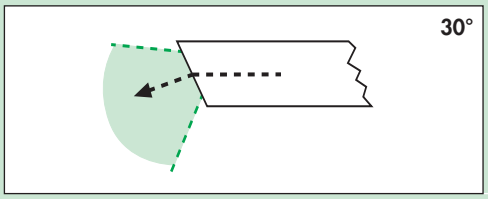
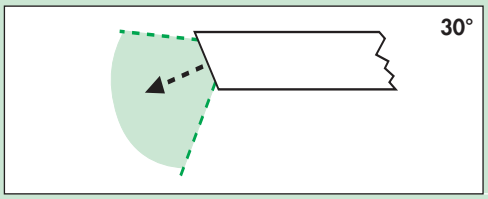
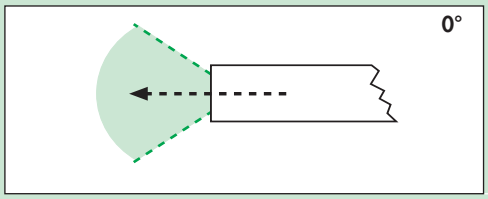
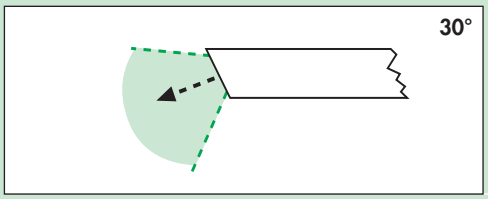
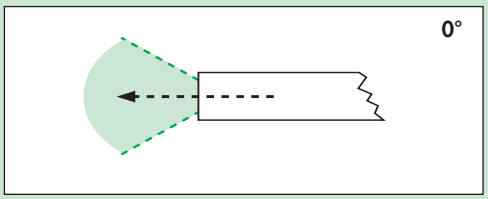
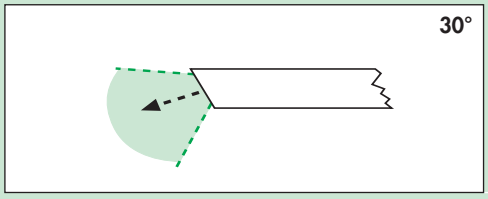
Three-Dimensional Orientation

The surgeon is guaranteed a better three-dimensional orientation of the surgical field through the visualization of shadow (natural representation of the pictures).

Product	Order-No.	Description
	429-62000	**OP-Telescope** ■ Direction of view 0° ■ Working length: 270 mm ■ Connector for Storz/Wolf/ACMI ■ Sign colour: green ■ Working channel: Ø 6 mm

Ø 10 mm

TELESCOPES

Products	Order-No.	Description
	*429-60200*	***LAPALUX-Telescope 0°*** ■ Direction of view 0° ■ Working length: 300 mm ■ Connector for Storz/Wolf/ACMI ■ Sign colour: green
	429-60200 BA	■ Working length: 510 mm
	*429-61200*	***LAPALUX-Telescope 30°*** ■ Direction of view 30° ■ Working length: 300 mm ■ Connector for Storz/Wolf/ACMI ■ Sign colour: red
	429-61200 BA	■ Working length: 510 mm
	*429-66000*	***LAPALUX-Telescope 30°*** ■ Direction of view 30° ■ Working length: 310 mm ■ Connector for Storz/Wolf/ACMI ■ Sign colour: red
	*429-67300*	***LAPALUX-Telescope 0°*** ■ Direction of view 0° ■ Working length: 330 mm ■ Connector for Storz/Wolf/ACMI ■ Sign colour: green
	*429-68300*	***LAPALUX-Telescope 30°*** ■ Direction of view 30° ■ Working length: 330 mm ■ Connector for Storz/Wolf/ACMI ■ Sign colour: red
	*429-63000*	***LAPALUX-Telescope 0°*** ■ Direction of view 0° ■ Working length: 300 mm ■ Connector for Storz/Wolf/ACMI ■ Sign colour: green
	*429-64000*	***LAPALUX-Telescope 30°*** ■ Direction of view 30° ■ Working length: 300 mm ■ Connector for Storz/Wolf/ACMI ■ Sign colour: red

Ø 10 mm

Ø 7 mm

Ø 5 mm

Ø 2.9 mm

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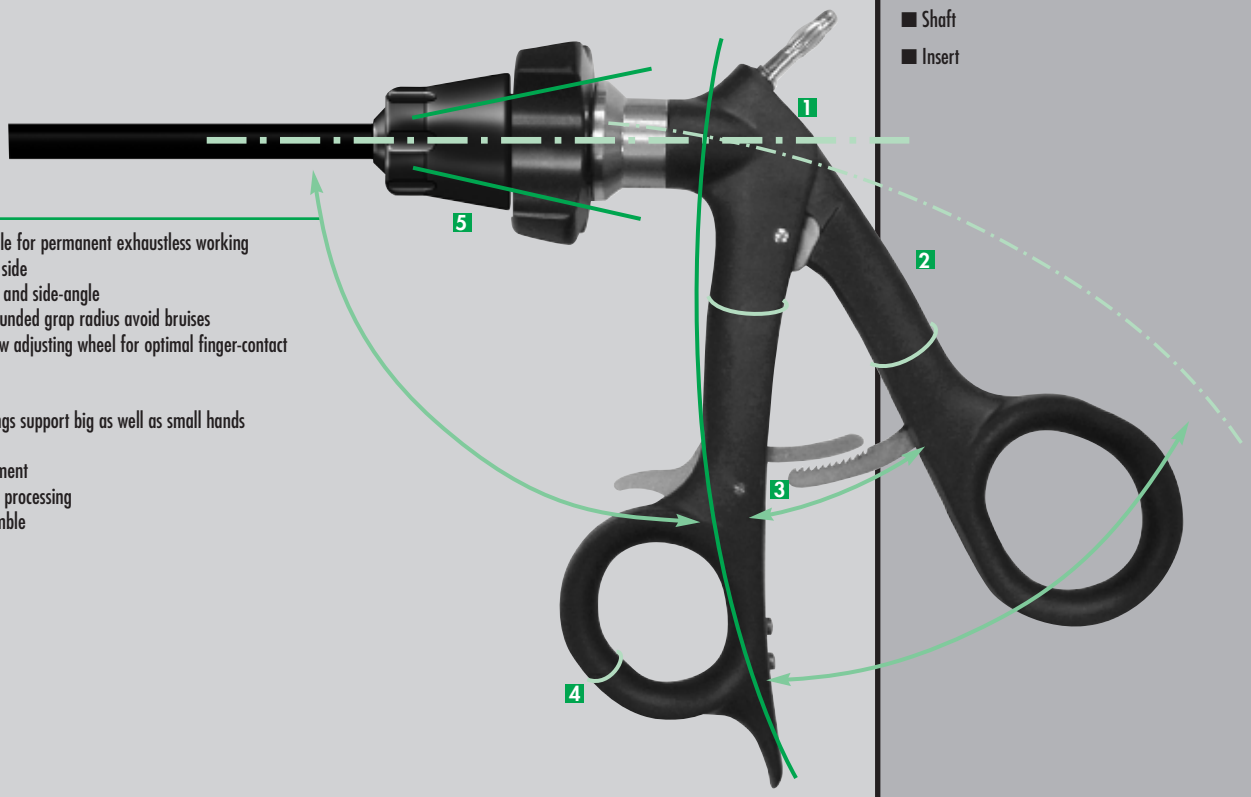
HAND INSTRUMENTS FOR MIS

The New Hand Instrument consist of:

- Handle
- Shaft
- Insert



Advantages

1. Ergonomic developed handle for permanent exhaustless working
2. Ergonomic warped handle-side
3. Ergonomic optimised grap- and side-angle
4. Soft and trapeze similar rounded grap radius avoid bruises
5. Wedge-shaped finger-hollow adjusting wheel for optimal finger-contact with big or small hands

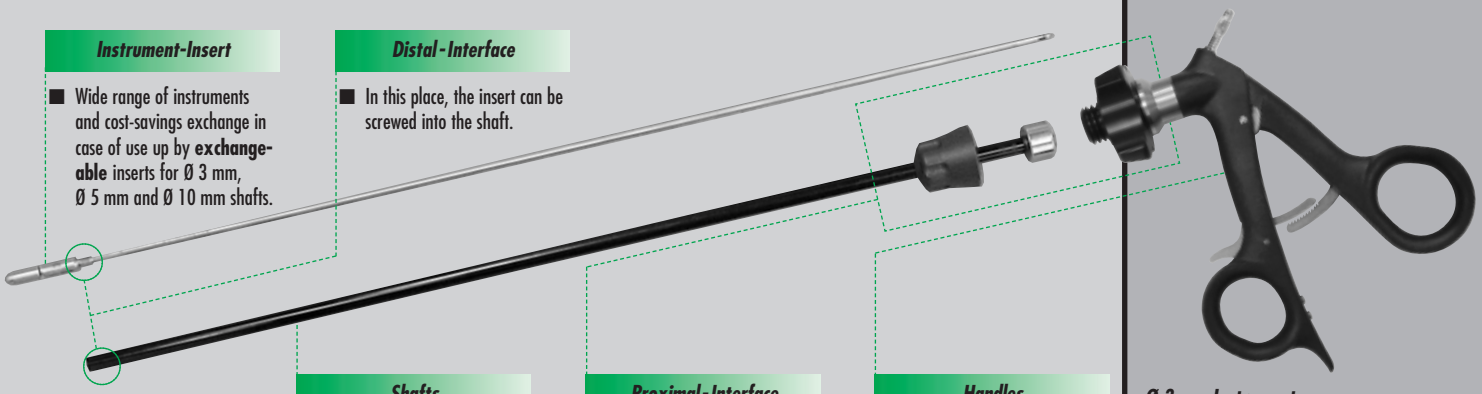
- Oval, rejuvenated fingerrings support big as well as small hands
- Light constructed handle
- Compact and robust instrument
- Ratched design for optimal processing
- Autoclaveable and disassemble
- Long-lasting materials
- Exact and long-lasting

Instrument-Insert

- Wide range of instruments and cost-savings exchange in case of use up by **exchange-able** inserts for Ø 3 mm, Ø 5 mm and Ø 10 mm shafts.

Distal-Interface

- In this place, the insert can be screwed into the shaft.



Shafts

- For this hand instruments-system, isolated and metal shafts are available in diameter of Ø 5 mm and Ø 10 mm. Another advantage is that we have also shaft with Ø 10 mm outer diameter which is made for the Ø 5 mm inserts. Therefore, you will get a very robust instrument.

Proximal-Interface

- This interface is same by all handles and shafts; because of this, all inserts are able to be connected with the whole handle-spectrum through shaft knob.

Handles

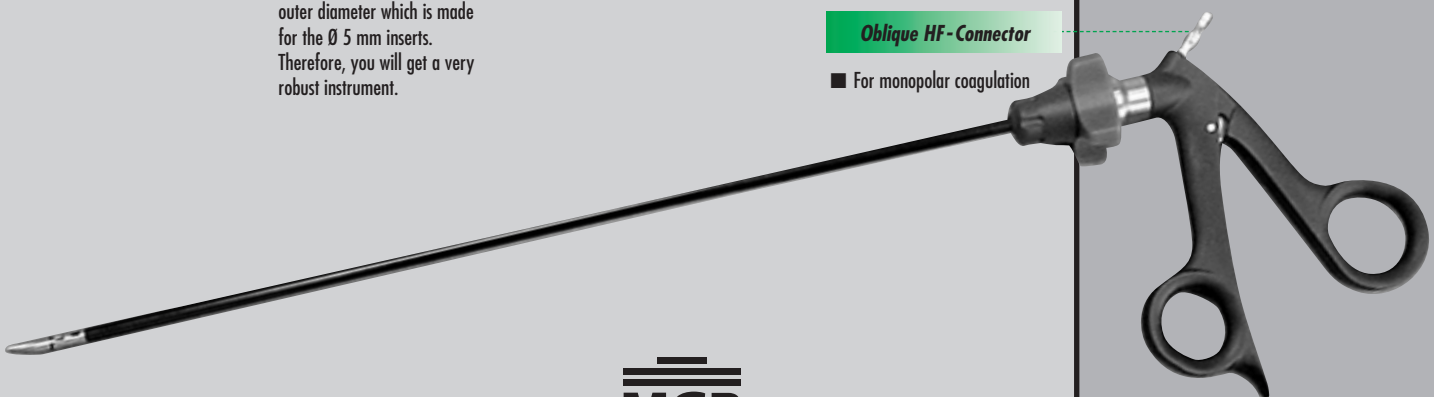
- There are different handles to our system available and also with different kind of ratches.

Ø 3 mm Instruments

Insert and insulated shaft are always connected together.

Oblique HF-Connector

- For monopolar coagulation



INTERFACE AND CONTROL

1.

Distal Interface

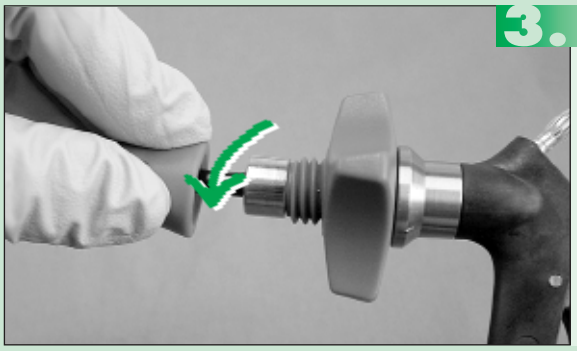
- The instrument-inserts are pushed right down into the shafts and screwed to the end.
  Important: close the insert-mouth completely, because of impairment cutting!

- The distal interface is different between Ø 5 mm and Ø 10 mm instruments.

2.

Proximal Interface

- The insert should be closed now and the handle should be opened at the maximum. From now on, put the ball into the gap from an oblique position.
  Close the handle and screw the shaft knob.



3.

Function Control

- Now, the instrument is completely assembled. Concluding, a function control is to be hold. It will be tested if a relaxed connection between handle and insert exists.

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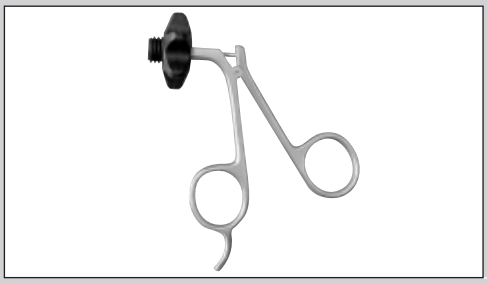
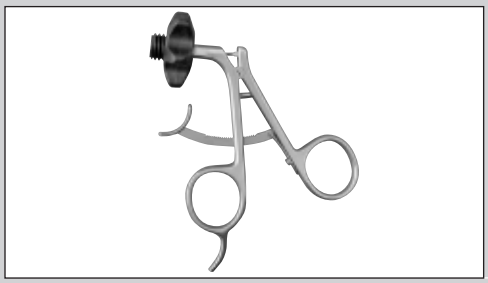
HANDLES

Products	Order-No.	Description
	429-77015	***GRP-Laparoscopic Handle Polymer*** ■ With HF-connection ■ Fibre-reinforced
	429-77030	***GRP-Laparoscopic Handle Polymer with Ratchet*** ■ With HF-connection ■ Fibre-reinforced
	*429-75003*	***Metal Handle***
	*429-75002*	***Metal Handle with Ratchet***
	429-75001	***Metal Handle Insulated*** ■ With HF-connection

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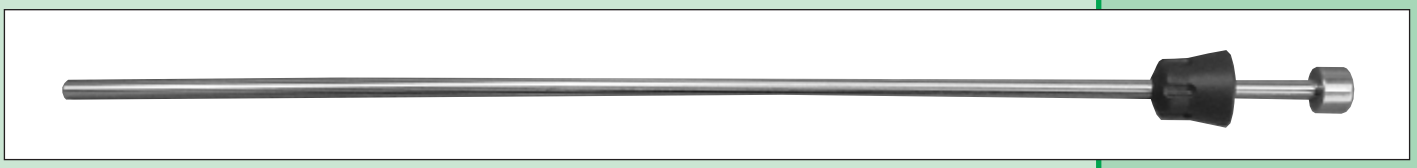
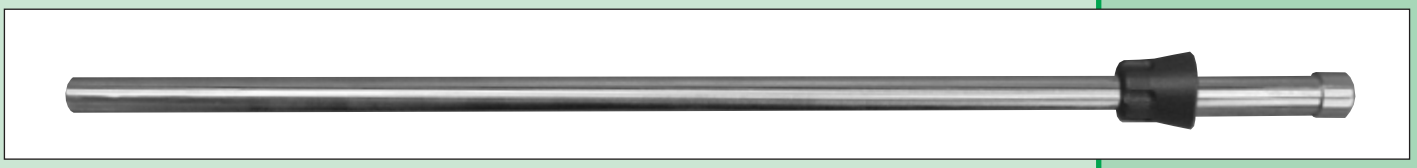
SHAFTS

Products	Order-No.	Description
		
	429-75035	***Metal Shaft with Shaft Knob*** ■ Working length: 330 mm ■ Ø 5 mm
		
	429-75031	***Metal Shaft with Shaft Knob*** ■ Working length: 330 mm ■ Ø 10 mm
		Insulated Shaft with Shaft Knob Ø 5 mm
	429-75065	■ Working length: 330 mm
	429-75065/22	■ Working length: 220 mm
	429-75065/44	■ Working length: 440 mm
		Insulated Shaft with Shaft Knob
		ⓘ ***Ø 10 - 5 mm***
	429-75062	■ Working length: 330 mm
		Ø 10 mm
	429-75061	■ Working length: 330 mm
	429-75061/44	■ Working length: 440 mm

Attention ⓘ

Shaft outer-diameter Ø 10 mm:
for Ø 5 mm inserts

Shaft Knobs:

■ For Ø 10 mm inserts separate delivery,
Order-No.: 429-75081

■ For Ø 3-/Ø 5 mm inserts separate delivery,
Order-No.: 429-75085

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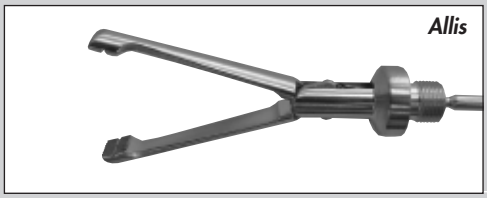
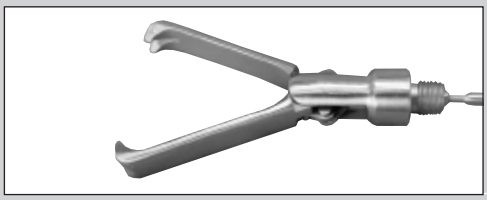
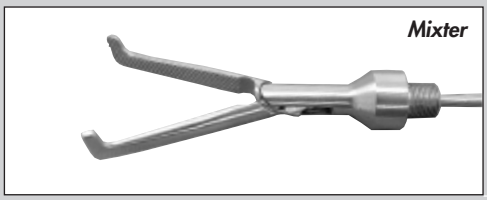
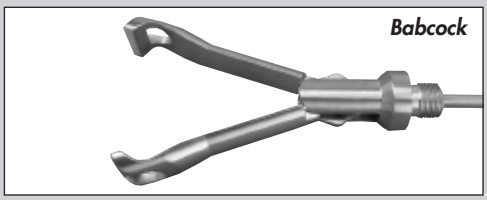
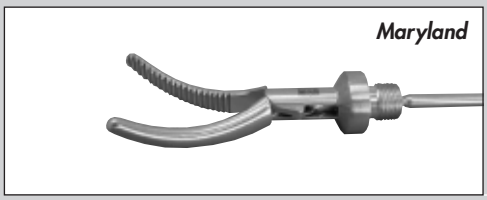
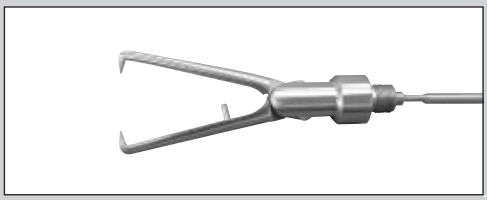
DISSECTING- AND GRASPING FORCEPS

Ø 10 mm

Inserts	Order-No.	Description
	429-75263	**Spoon Grasping Forceps** ■ Single action
	429-75215	**Grasping Forceps** ■ Double action
	429-75281 (330 mm) 429-75281/44 (440 mm)	**Claw Forceps** ■ 2 to 3 teeth ■ Sharp ■ Double action
	429-75165	**Dissecting Forceps 90°** ■ Right-angled 90° ■ Double action
	429-75191	**Grasping Forceps** ■ Double action
	429-75164	**Grasping Forceps** ■ Slight curved ■ Double action
	429-75282 429-75282/44	**Tenaculum**

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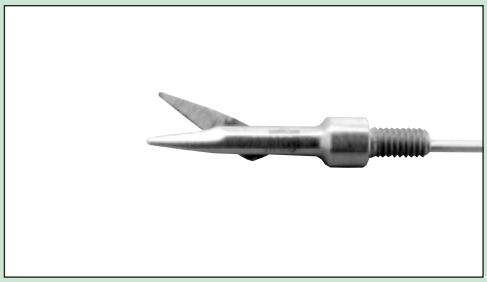
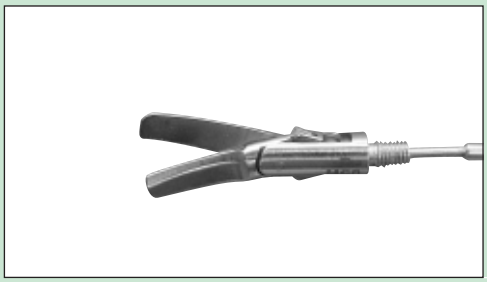
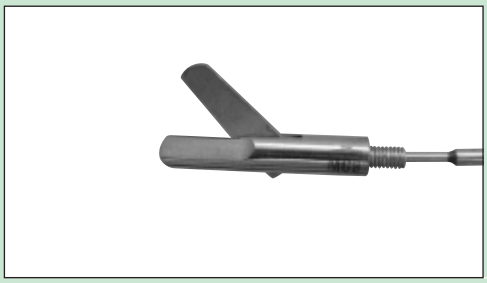
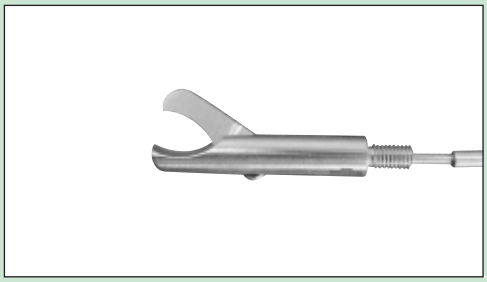
SCISSORS/BIOPSY

Ø 5 mm

Inserts	Order-No.	Description
	429-75301	**Micro Scissors Straight** ■ Single action
	429-75154	**Endo Scissors** ■ Curved
	429-75111	**Peritoreal Scissors** ■ Straight ■ Serrated jaw ■ Single action
	429-75261 (330 mm) 429-75261/22 (220 mm) 429-75261/44 (440 mm)	**Hook Scissors** ■ Hardened ■ Single action
Metzenbaum 	429-75152	**Scissors** ■ Straight ■ Double action

SCISSORS/BIOPSY FORCEPS

Ø 5 mm

Inserts	Order-No.	Description
Metzenbaum	429-75153 (330 mm) 429-75153/22 (220 mm) 429-75153/44 (440 mm)	Scissors ■ Curved ■ Double action
	429-75158	Preparation Scissors ■ "Special-cut" ■ Curved ■ Double action
Metzenbaum	429-75155	Scissors Heavy ■ Straight ■ Heavy blades
Blakesly	429-75273	Biopsy Forceps ■ Single action
	429-75271	Biopsy Forceps ■ Single action

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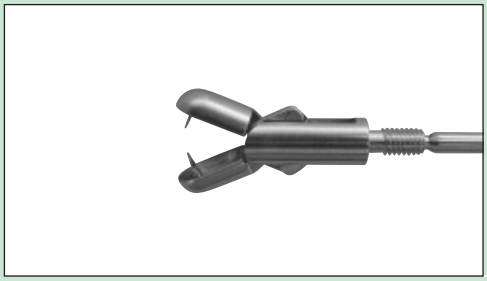
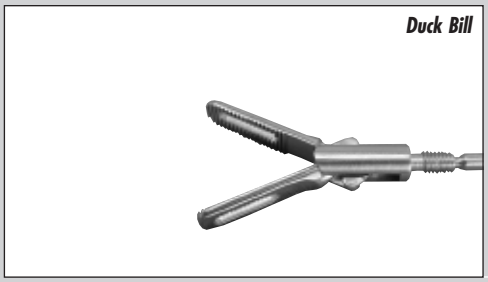
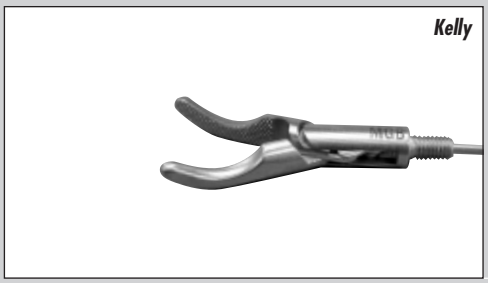
DISSECTING - AND GRASPING FORCEPS

Ø 5 mm

Inserts	Order-No.	Description
	429-75274	**Biopsy Forceps** With pin Single action
	429-75275	**Biopsy Forceps** Spoon jaw Double action
	429-75272	**Biopsy Forceps** Spoon jaw with pin Double action
	429-75238	**Alligator Grasping- and Biopsy Forceps** Double action
	429-75121	**Dissecting Forceps** Slim Single action

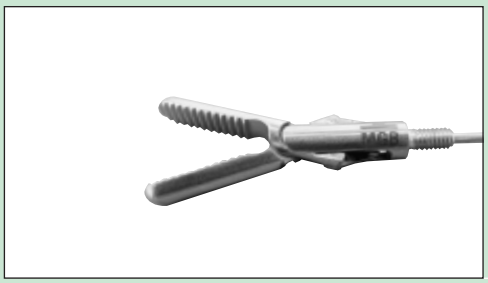
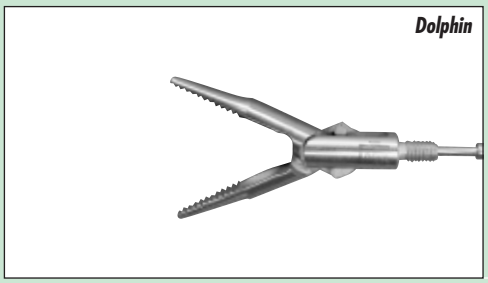
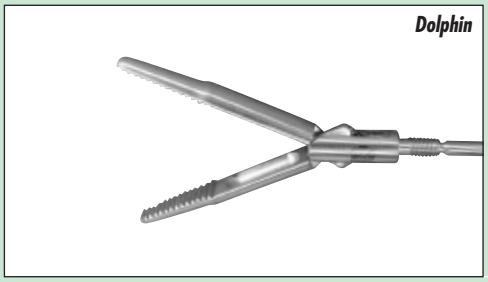
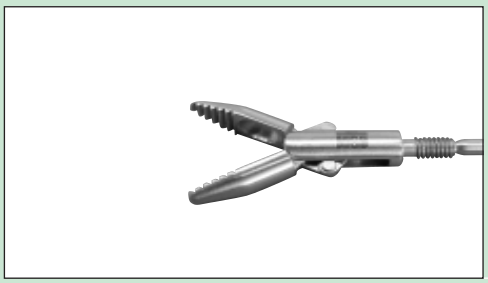
DISSECTING - AND GRASPING FORCEPS

Ø 5 mm

Inserts	Order-No.	Description
Duck Bill 	429-75237 (330 mm) 429-75237/22 (220 mm) 429-75237/44 (440 mm)	Dissecting- and Grasping Forceps Fenestrated Double action
Kelly 	429-75166	Dissecting- and Grasping Forceps
Mixter	429-75167	Dissecting- and Grasping Forceps
Allis	429-75214	Atraum. Grasping Forceps Taper off Single action
	429-75175	Claw Forceps Aggressive 2 to 3 teeth Sharp Single action Second teeth raw

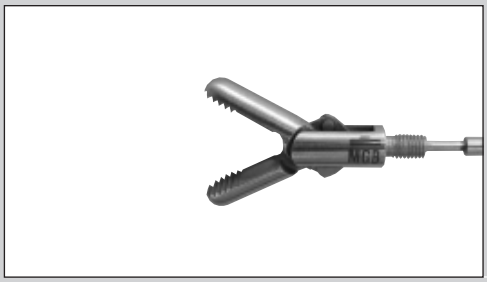
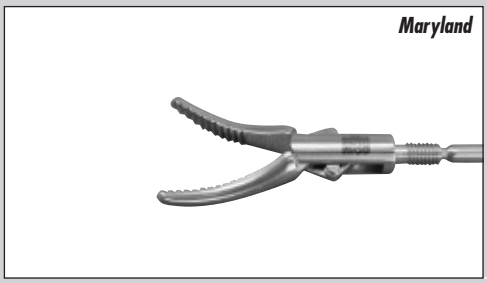
DISSECTING - AND GRASPING FORCEPS

Ø 5 mm

Inserts	Order-No.	Description
	429-75171	**Claw Forceps** 2 to 3 teeth Sharp Single action
	429-75232 (330 mm) 429-75232/22 (220 mm) 429-75232/44 (440 mm)	**Dissecting- and Grasping Forceps** Blunt Double action
Dolphin 	429-75201	**Dissecting Forceps, Short** With spoon Double action
Dolphin 	429-75202	**Dissecting Forceps, Long** With spoon Double action
	429-75203	**Dissecting Forceps** With spoon Pointed Double action

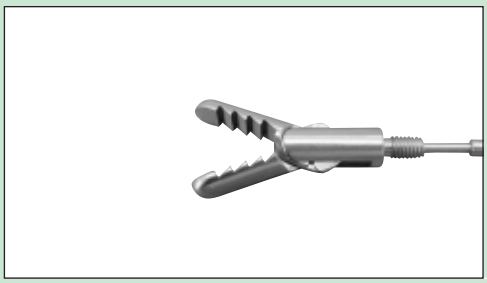
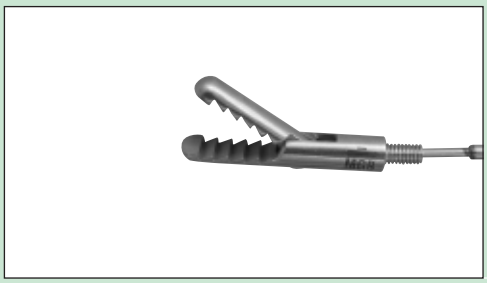
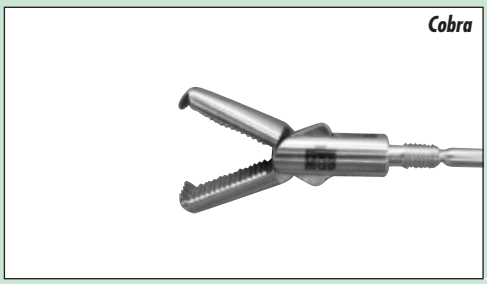
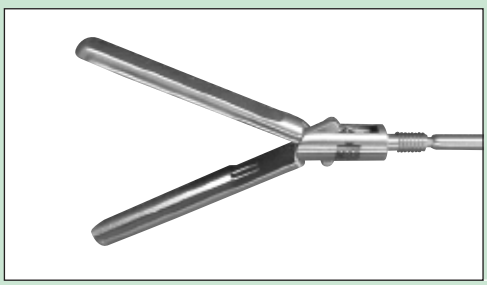
DISSECTING- AND GRASPING FORCEPS

Ø 5 mm

Inserts	Order-No.	Description
	429-75204	**Dissecting Forceps** With spoon Blunt Double action
	429-75291	**Atraum. Grasping Forceps** Slim Double action
Maryland 	429-75162 (330 mm) 429-75162/22 (220 mm) 429-75162/44 (440 mm)	**Dissecting Forceps** Short jaw Curved left Double action
Dorsey 	429-75244	**Intestinal Forceps** Jaw length: 30 mm Double action Fenestrated
De Bakey 	429-75222 429-75223	**Atraum. Intestinal Forceps** Jaw length: 30 mm Double action Jaw length: 60 mm

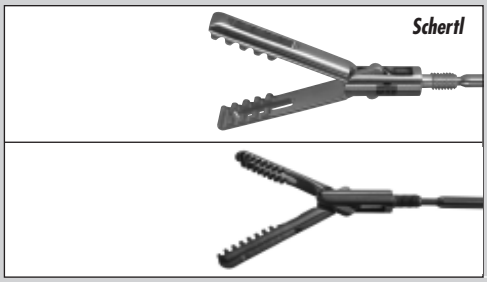
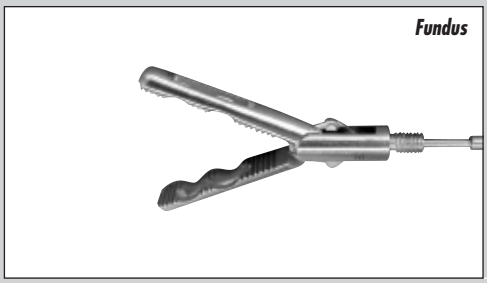
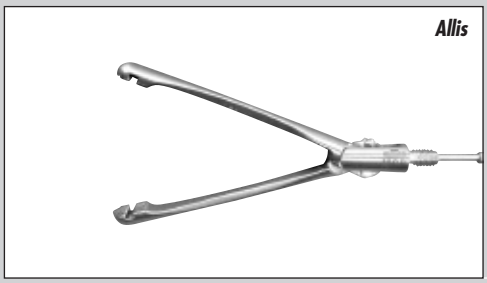
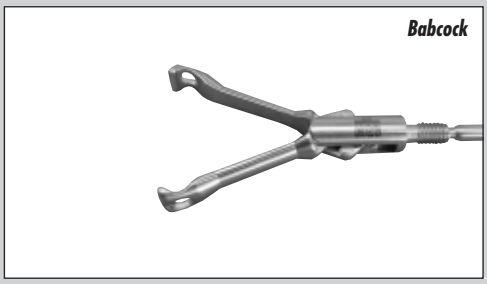
DISSECTING- AND GRASPING FORCEPS

Ø 5 mm

Inserts	Order-No.	Description
	429-75231	***Dissecting- and Grasping Forceps*** Short Double action
	429-75236	***Alligator Grasping Forceps*** Double action
	429-75241	***Alligator Grasping Forceps*** Single action
Cobra 	429-75131	***Grasping Forceps*** 2 to 3 teeth Hardened Double action
	429-75221	***Atraum. Grasping Forceps*** Double action

DISSECTING - AND GRASPING FORCEPS

Ø 5 mm

Inserts	Order-No.	Description
 Schertl	429-75234 (330 mm) 429-75234/22 (220 mm) 429-75234/44 (440 mm)	Grasping Forceps Fenestrated Double action
	429-75242	Endo Grasper Fenestrated Double action
 Fundus	429-75235 (330 mm) 429-75235/22 (220 mm) 429-75235/44 (440 mm)	Grasping Forceps Double action
 Allis	429-75211	Atraum. Grasping Forceps Double action
	429-75183	Bowel Grasping Forceps Double action
 Babcock	429-75208	Grasping Forceps

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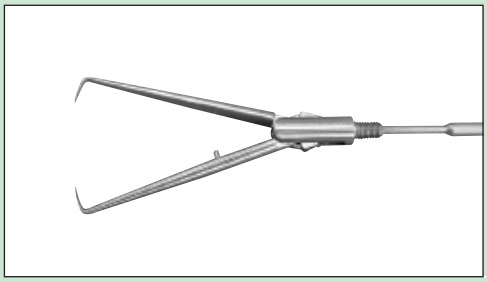
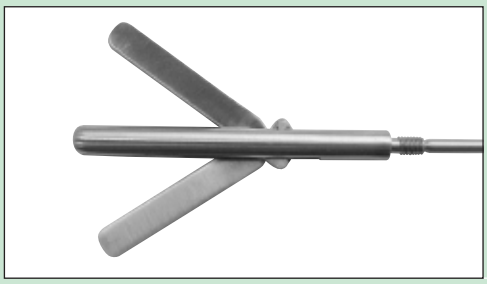
DISSECTING - AND GRASPING FORCEPS

Inserts	Order-No.	Description
		Ø 5 mm
	429-75245	*Micro Grasping Forceps*
	429-75240	*Atraum. Grasping Forceps* Wavy teeth
Dorsey 	*429-75239*	*Grasping Forceps* Fenestrated Single action
	*429-75283* *429-75283/44*	*Insert Tenaculum* Ø 5 mm for 330 mm shafts Ø 5 mm for 440 mm shafts
	*429-75305*	*Retractor Insert with 3 Fingers*

INSERT WITH SHAFT

Inserts	Order-No.	Description
		Ø 3 mm
Metzenbaum	429-73411	**Scissors** Irrigation port
	429-73421	**Biopsy Forceps** Irrigation port
	429-73381	**Grasping Forceps** Straight Serrated Irrigation port
Babcock	429-73391	**Grasping Forceps** Curved Serrated Irrigation port
Maxi	429-73401	**Atraum. Grasping Forceps**

Ø 3 mm Instruments

Inserts and insulated shafts are always connected together.

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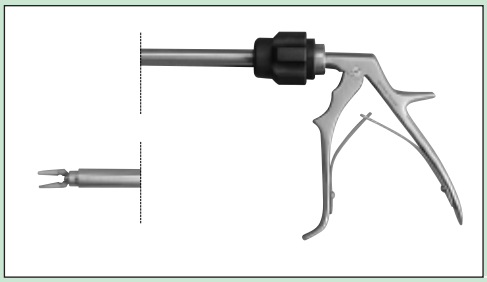
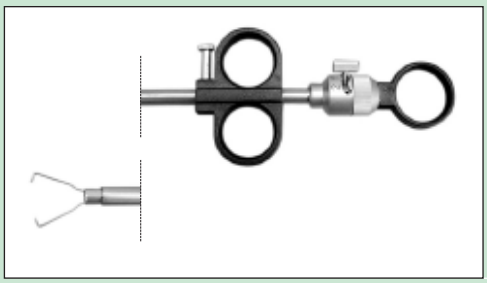
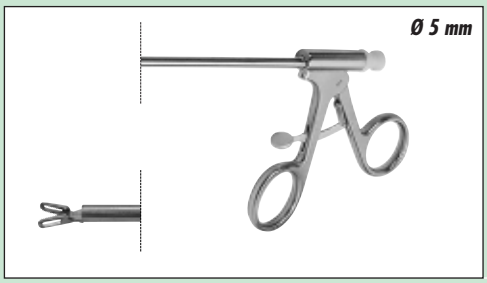
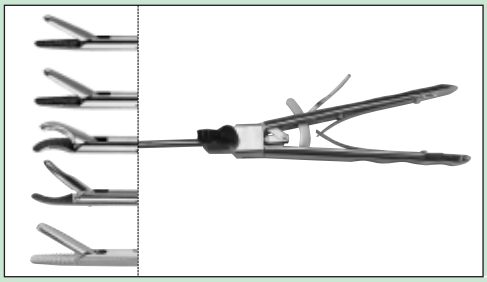
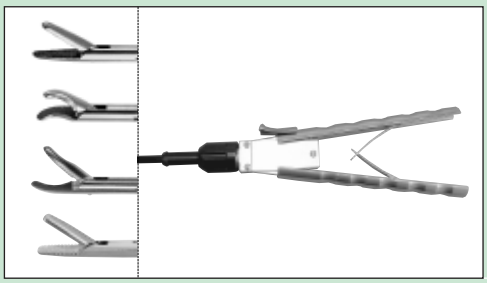
CLIP AND LIGATUR

Products	Order-No.	Description
		Ø 10 mm/Ø 5 mm/Ø 3 mm
	***429-70370***	***Clip-Applicator*** For SLS-Clips Medium-large Rotable Disassemble
	429-70379	***SLS Titan Clip*** Medium-large Box with 20 cartridges with 6 clips
	***429-70380***	***Ring-Applicator*** Ø 6.5 mm Length: 287 mm
	429-70382	***Ring-Applicator*** Ø 6.0 mm Length: 350 mm For OP-Laparoscope ***Order-Nr.: 429-62000***
	***429-70305***	***Cholangiogram Clamp*** Ø 5 mm Channel for cholangiocatheter Handle with ratchet Assemble 6 Fr. Channel
		***Axial Needle Holder with Rinsing Channel*** ***New Product!*** Not detachable
	429-73430 (Ø 3 mm)	Straight
	429-75310 (Ø 5 mm)	Straight
	429-75350 (Ø 5 mm)	Left
	429-75340 (Ø 5 mm)	Right
	429-75360 (Ø 5 mm)	Straight convex/concav shaped
		***Needle Holder in 3 Components Disassemble*** ***New Product!***
	429-77310	Straight
	429-77350	Left
	429-77340	Right
	429-77360	Straight convex/concav shaped

Tungsten Carbide

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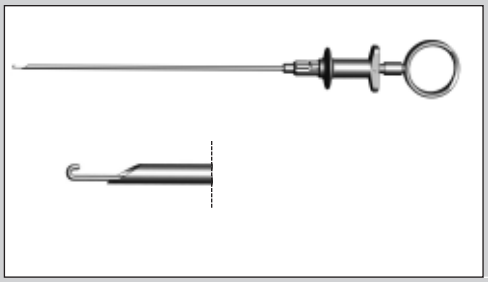
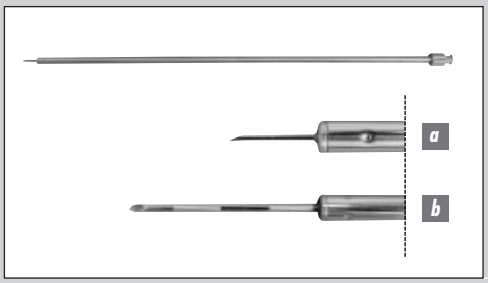
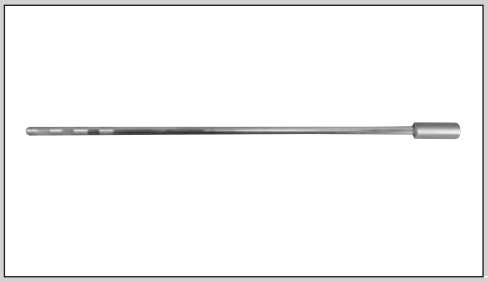
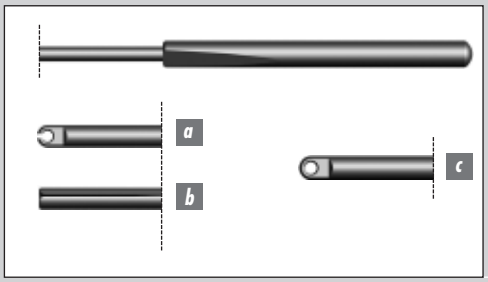
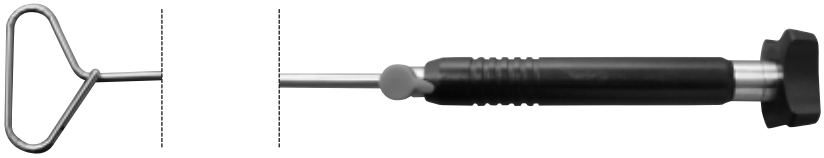
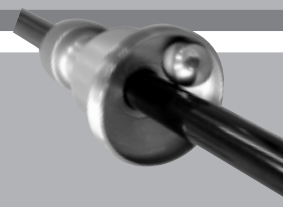
CANNULAS

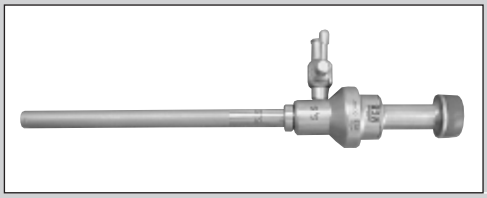
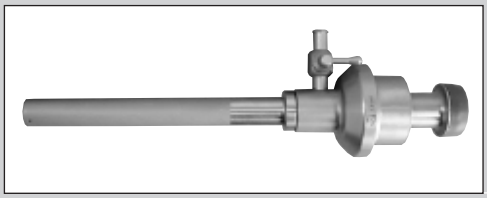
Products	Order-No.	Description
	429-23810	**Fascial Closure Device** Ø 2.3 mm Working length: 140 mm
	a 429-14530 b 429-14520	a **Puncture Cannula** Ø 5 mm Needle diameter: 1.0 mm Working length: 300 mm b **Puncture Cannula** Ø 5 mm Needle diameter: 1.5 mm Working length: 300 mm
	429-16730	**Probe Rod** Graduated Diameter: Ø 5 mm Working length: 300 mm
	a 429-40270 b 429-40271 c 429-40272	**Knot Pusher** Ø 4 mm Working length: 330 mm a Open loop b Slot c Closed loop

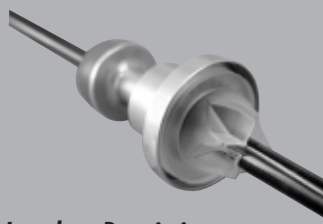
RETRACTORS

Products	Order-No.	Description
	429-16905	*„Fan“ Retractor with 3 Fingers* Cleanse system Working length: 340 mm
	429-16901	*„Fan“ Retractor with 5 Fingers* Cleanse system Working length: 380 mm
	429-16915	*„Fan“ Retractor with 3 Fingers* Cleanse system Working length: 340 mm Vertical up to 50° adjustable
	429-16911	*„Fan“ Retractor with 5 Fingers* Cleanse system Working length: 380 mm Vertical up to 50° adjustable
	429-16925	*Flex Retractor*

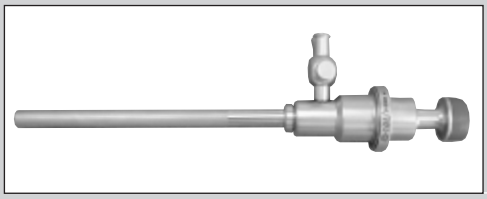


MAGNETIC BALL – TROCAR SLEEVES

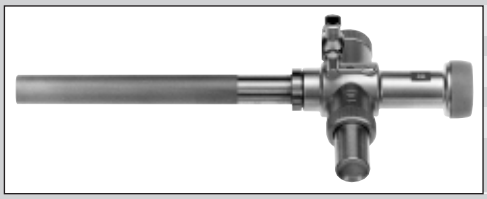
Products	With Luer Stopcock Order-No.	Diameter	Working Length	Description
	429-24055	5.5 mm	95.0 mm	Trocar Sleeve with Magnetic Ball Stainless steel
	429-24100	10.0 mm	97.0 mm	Trocar Sleeve with Magnetic Ball Stainless steel



SILICONE VALVE TROCAR-SLEEVE

Products	With Luer Stopcock Order-No.	Diameter	Working Length	Description
	429-25055	5.5 mm	95.0 mm	Trocar Sleeve with Silicone Valve Stainless steel

TRUMPET VALVE – TROCAR SLEEVE

Products	With Luer Stopcock Order-No.	Diameter	Working Length	Description
	429-40005	5.5 mm	95.0 mm	Metal Shaft Straight
	429-40013	10.0 mm	97.0 mm	
	429-40014	11.0 mm	101.0 mm	

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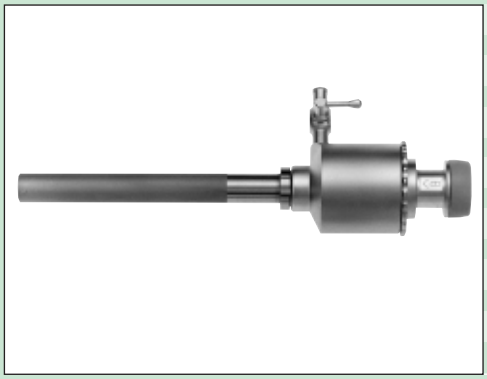
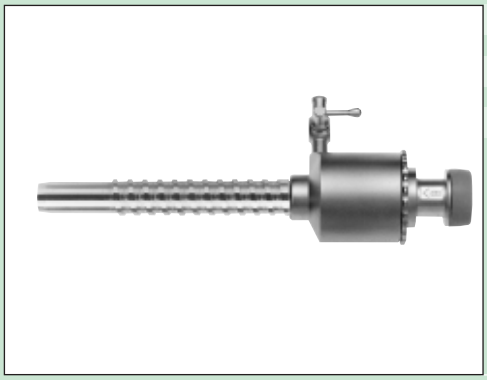
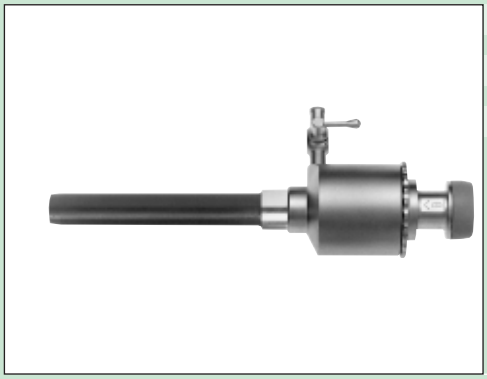
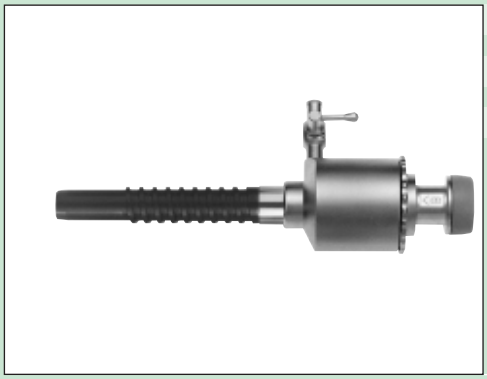
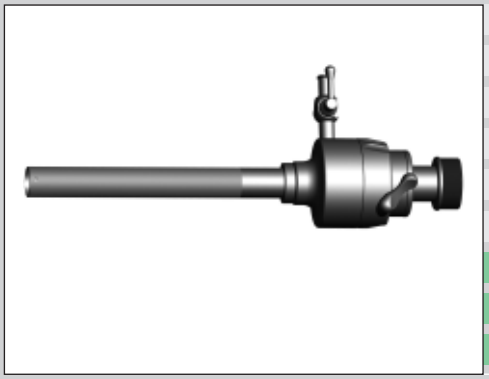
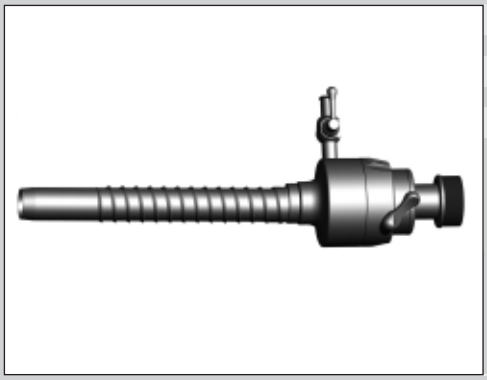
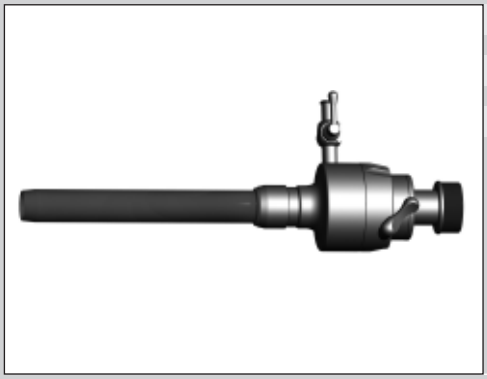
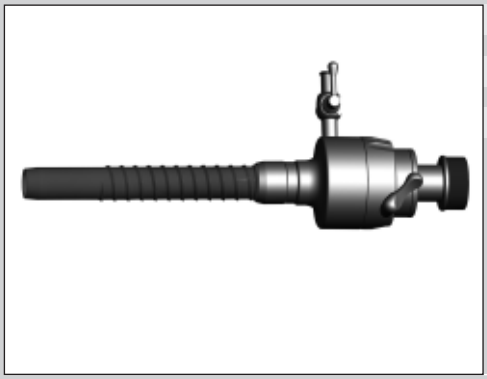
FLAP VALVE – TROCAR SLEEVES

Products	With Luer Stopcock Order-No.	Diameter	Working Length	Description
	429-40201	3.5 mm	70.0 mm	**Metal Shaft** Straight
	429-45201	5.0 mm	92.0 mm	
	429-40001	5.5 mm	95.0 mm	
	429-40004	7.0 mm	95.0 mm	
	429-45001	10.0 mm	97.0 mm	
	429-40002	11.0 mm	101.0 mm	
	429-40003	12.5 mm	98.0 mm	
	429-40011	5.5 mm	95.0 mm	**Metal Shaft** With retaining thread
	429-40012	11.0 mm	101.0 mm	
	429-41012	12.5 mm	98.0 mm	
	429-40051	5.5 mm	95.0 mm	**Plastic Shaft** Straight
	429-40052	11.0 mm	101.0 mm	
	429-40054	12.5 mm	98.0 mm	
	429-40061	5.5 mm	95.0 mm	**Plastic Shaft** With retaining thread
	429-40062	11.0 mm	101.0 mm	
	429-40064	12.5 mm	98.0 mm	

FLAP VALVE – TROCAR SLEEVES

Products	With Luer Stopcock Order-No.	Diameter	Working Length	Description
	429-40202	3.5 mm	70.0 mm	**Metal Shaft** Straight With manual opening
	429-40020	5.0 mm	92.0 mm	
	429-40021	5.5 mm	95.0 mm	
	429-40025	10.0 mm	97.0 mm	
	429-40022	11.0 mm	101.0 mm	New Design! Stainless Steel
	429-40024	12.5 mm	98.0 mm	
	429-40021/15	5.5 mm	150.0 mm	
	429-40022/15	11.0 mm	150.0 mm	**Bariatric Surgery**
	429-40024/15	12.5 mm	150.0 mm	
	429-40031	5.5 mm	95.0 mm	**Metal Shaft** With retaining thread With manual opening
	429-40032	11.0 mm	101.0 mm	
	429-40034	12.5 mm	98.0 mm	
	429-40071	5.5 mm	95.0 mm	**Plastic Shaft** Straight With manual opening
	429-40072	11.0 mm	101.0 mm	
	429-40074	12.5 mm	98.0 mm	
	429-40081	5.5 mm	95.0 mm	**Plastic Shaft** With retaining thread With manual opening
	429-40082	11.0 mm	101.0 mm	
	429-40084	12.5 mm	98.0 mm	

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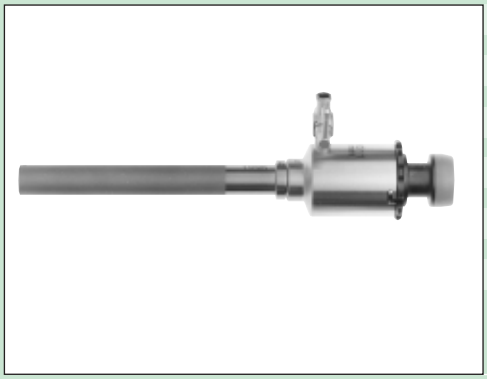
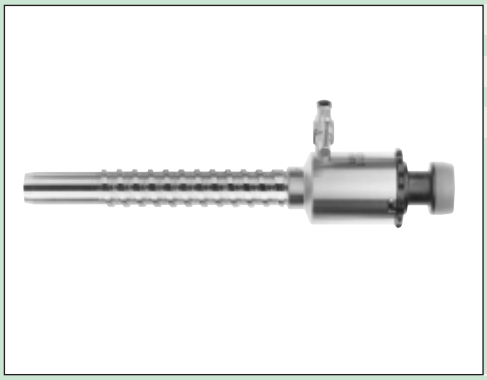
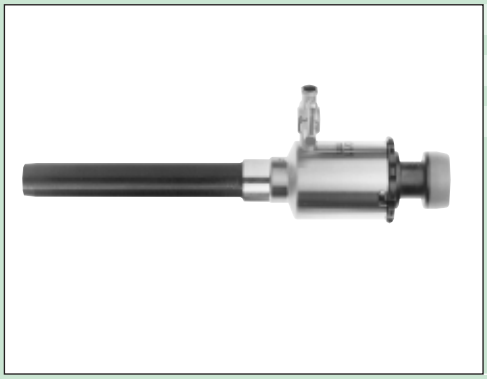
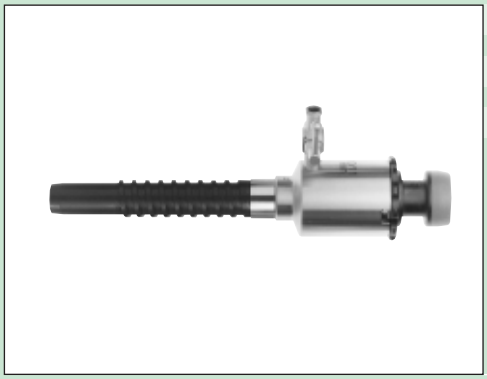
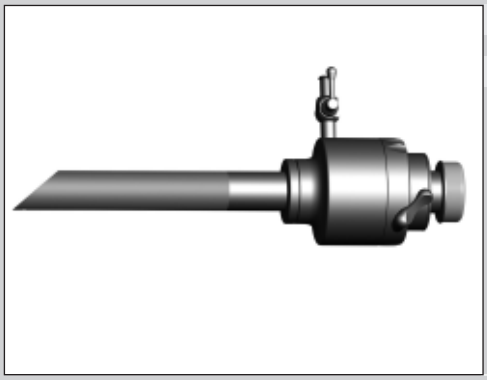
SILICONE VALVE – TROCAR SLEEVES

Products	With Luer Stopcock Order-No.	Diameter	Working Length	Description
	429-40280	3.5 mm	70.0 mm	**Metal Shaft** Straight
	429-40281	5.0 mm	92.0 mm	
	429-40282	5.5 mm	95.0 mm	
	429-40283	10.0 mm	97.0 mm	
	429-40284	11.0 mm	101.0 mm	
	429-40285	12.5 mm	98.0 mm	
	429-40306	5.5 mm	95.0 mm	**Metal Shaft** With retaining thread
	429-40308	11.0 mm	101.0 mm	
	429-40309	12.5 mm	98.0 mm	
	429-40311	5.5 mm	95.0 mm	**Plastic Shaft** Straight
	429-40313	11.0 mm	101.0 mm	
	429-40314	12.5 mm	98.0 mm	
	429-40321	5.5 mm	95.0 mm	**Plastic Shaft** With retaining thread
	429-40323	11.0 mm	101.0 mm	
	429-40324	12.5 mm	98.0 mm	

BIG DIAMETER FLAP VALVE – TROCAR SLEEVES WITH MANUAL OPENING

Products	With Luer Stopcock Order-No.	Diameter	Working Length	Description
	429-40041	15.0 mm	110.0 mm	Metal Shaft Straight Stainless Steel
	429-40042	20.0 mm	120.0 mm	
	429-23900			Abdominal Speculum

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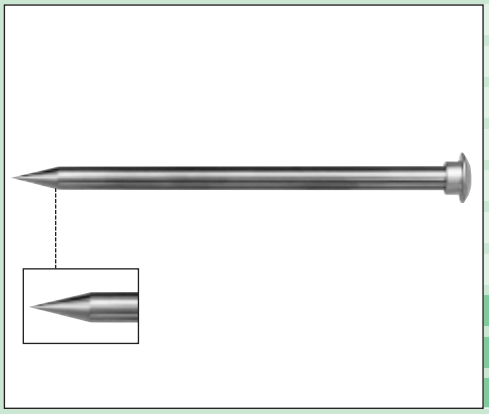
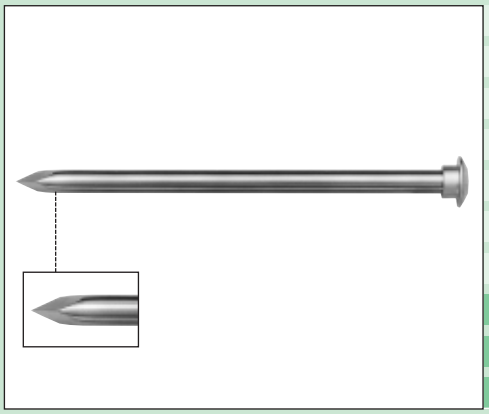
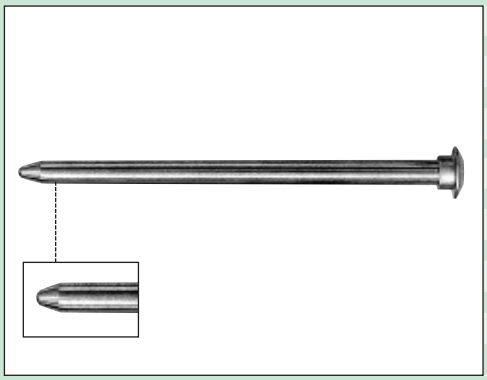
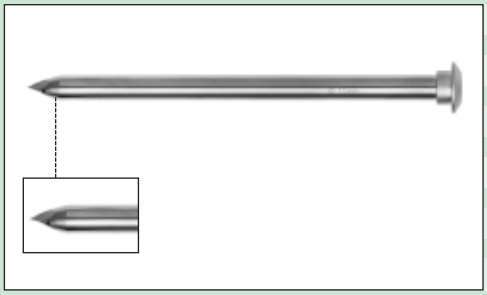
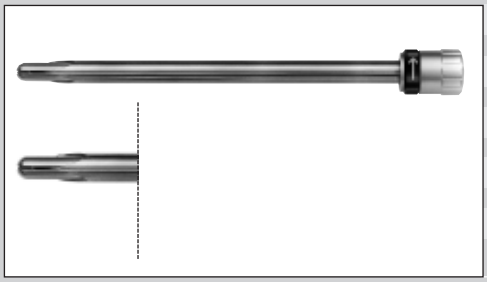
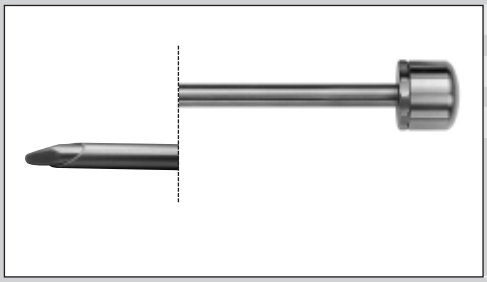
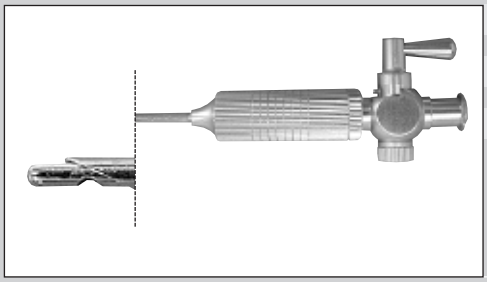
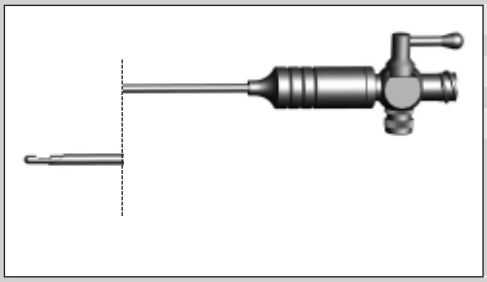
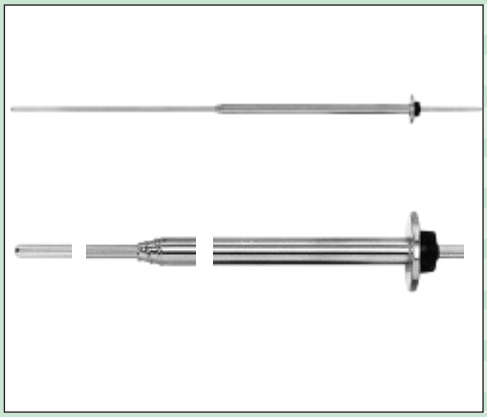
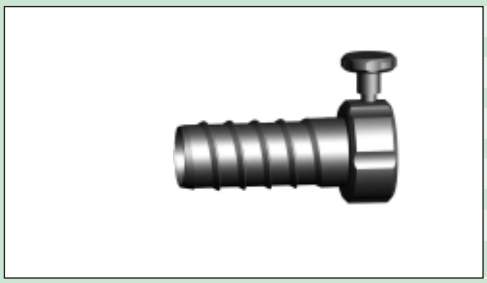
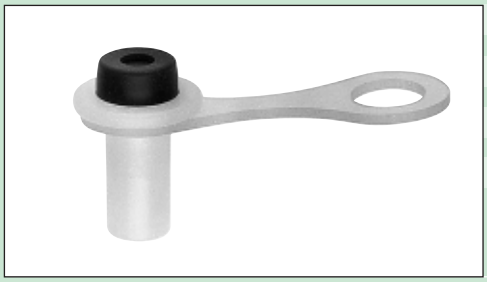
TROCARS

Products	Order-No.	Diameter	For Sleeve Working Length	Description
	429-40203	3.5 mm	70.0 mm	Trocar Conical
	429-40130	5.0 mm	92.0 mm	
	429-40131	5.5 mm	95.0 mm	
	429-40158	7.0 mm	95.0 mm	
	429-40134	10.0 mm	97.0 mm	
	429-40133	11.0 mm	101.0 mm	
	429-40137	12.5 mm	98.0 mm	
	429-40131/15	5.5 mm	150.0 mm	
	429-40133/15	11.0 mm	150.0 mm	Bariatric Surgery
	429-40137/15	12.5 mm	150.0 mm	
	429-40204	3.5 mm	70.0 mm	Trocar Pyramidal
	429-40136	5.0 mm	92.0 mm	
	429-40141	5.5 mm	95.0 mm	
	429-40159	7.0 mm	95.0 mm	
	429-40138	10.0 mm	97.0 mm	
	429-40143	11.0 mm	101.0 mm	
	429-40139	12.5 mm	98.0 mm	
	429-40141/15	5.5 mm	150.0 mm	
	429-40143/15	11.0 mm	150.0 mm	Bariatric Surgery
	429-40139/15	12.5 mm	150.0 mm	
	429-40146	3.5 mm	70.0 mm	Trocar Conical blunt
	429-40147	5.0 mm	92.0 mm	
	429-40148	5.5 mm	95.0 mm	
	429-40160	7.0 mm	95.0 mm	
	429-40149	10.0 mm	97.0 mm	
	429-40151	11.0 mm	101.0 mm	
	429-40152	12.5 mm	98.0 mm	
	429-40153	5.0 mm	92.0 mm	Trocar Pyramidal with hollow grinding
	429-40154	5.5 mm	95.0 mm	
	429-40163	7.0 mm	95.0 mm	
	429-40135	10.0 mm	97.0 mm	
	429-40156	11.0 mm	101.0 mm	
	429-40155	12.5 mm	98.0 mm	

SAFETY TROCARS

Products	Order-No.	Diameter	For Sleeve Working Length	Description
	429-40103	5.0 mm	92.0 mm	**Trocar** Pyramidal
	429-40101	5.5 mm	95.0 mm	
	429-40104	10.0 mm	97.0 mm	
	429-40102	11.0 mm	101.0 mm	
	429-40105	12.5 mm	98.0 mm	
	429-40113	5.0 mm	92.0 mm	**Trocar** Half-moon
	429-40111	5.5 mm	95.0 mm	
	429-40114	10.0 mm	97.0 mm	
	429-40112	11.0 mm	101.0 mm	
	429-40115	12.5 mm	98.0 mm	
	429-40125	5.5 mm	95.0 mm	**Trocar** V-style
	429-40126	10.0 mm	97.0 mm	
	429-40127	11.0 mm	101.0 mm	
	670-95341 (100 mm)			**Verres Needle Ø 2 mm**
	670-95342 (120 mm)			
	670-95340 (150 mm)			
	670-95351 (100 mm)			**Verres Needle Ø 2 mm** Stainless Steel
	670-95352 (120 mm)			
	670-95350 (150 mm)			

TROCAR ACCESSORIES

Products	Order-No.	Diameter	Description
	429-23210	5.0 mm - 10.0 mm	Dilatation Sleeve with Rod
	429-23211	5.0 mm - 11.0 mm	
	429-23212	11.0 mm - 15.0 mm	
	429-23213	10.0 mm - 15.0 mm	
	429-23214	5.0 mm - 15.0 mm	
	429-23215	11.0 mm - 20.0 mm	
	429-23216	10.0 mm - 20.0 mm	
	429-23217	5.0 mm - 20.0 mm	
	429-23011	10.0 mm - 5.5 mm	Reduction Sleeve
	429-40150	11.0 mm - 5.5 mm	
	429-23013	12.5 mm - 10.0 mm	
	429-23014	12.5 mm - 5.5 mm	
	429-16600	5.0 mm - 4.0 mm	Applicator for Endo-Ligatur
	429-23510	5.0 mm	Trocar Stop 35.0 mm
	429-23511	5.5 mm	
	429-23512	10.0 mm	
	429-23513	11.0 mm	
	429-23514	12.5 mm	
	429-23115	10.0 mm - 5.5 mm	Reducer with Silicone Strap
	429-23116	11.0 mm - 5.5 mm	
	429-23117	12.5 mm - 5.5 mm	
	429-23118	12.5 mm - 10.0 mm	
	429-23119	12.5 mm/11.0 mm/10.0 mm to 5,5 mm	Slide Reducer
	429-23120	12.5 mm to 10.0 mm	

Reduction Sleeve

Order-No.:
429-23015 (15.0 mm - 10.0 mm)
429-23016 (15.0 mm - 5.50 mm)
429-23017 (20.0 mm - 10.0 mm)
429-23018 (20.0 mm - 5.50 mm)

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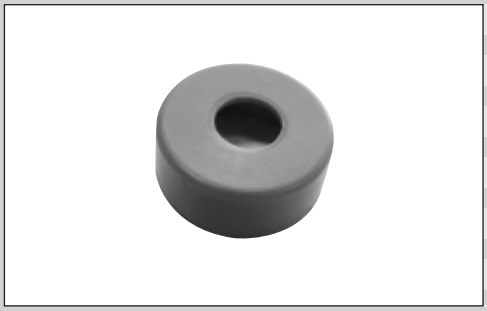
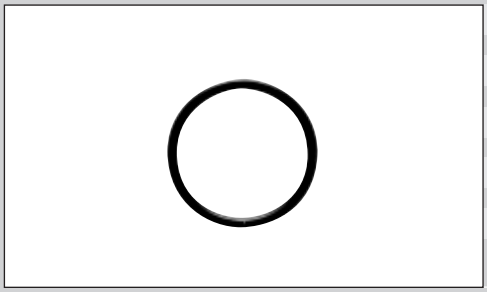
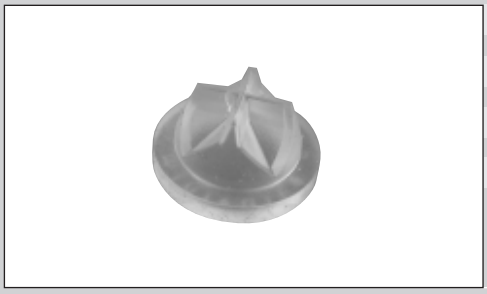
SEALINGS

Products	Order-No.	Diameter	Description
	429-90023 (10 pcs.)	3.0 mm/3.5 mm	**Sealing Caps** For all trocar sleeves
	429-90001 (10 pcs.)	5.0 mm/5.5 mm	
	429-90022 (2 pcs.)	10.0 mm/10.5 mm/11.0 mm	
	429-90027 (10 pcs.)	12.5 mm	
	429-90021 (2 pcs.)	15.0 mm	
	429-90020 (2 pcs.)	20.0 mm	
	429-90030	3.0 mm/3.5 mm	**Seal (1 pcs.)** For trocar sleeves on page 25/26
	429-90032	5.0 mm/5.5 mm	
	429-90034	10.0 mm/11.0 mm/12.5 mm	
	429-90037	15.0 mm	
	429-90038	20.0 mm	
	429-90040	3.0 mm/3.5 mm	**O-Ring (1 pcs.)** For flap valve trocar sleeves on page 25/26
	429-90042	5.0 mm/5.5 mm	
	429-90044	10.0 mm/11.0 mm/12.5 mm	
	429-90047	15.0 mm	
	429-90048	20.0 mm	
	429-90017 (5 pcs.)	3.5 mm/5.5 mm	**Silicone Valve** For trocar sleeves on page 27
	429-90018 (5 pcs.)	10.0 mm/12.5 mm	
	429-90019 (10 pcs.)		**Silicone Valve** For **Order-No.: 429-25055**

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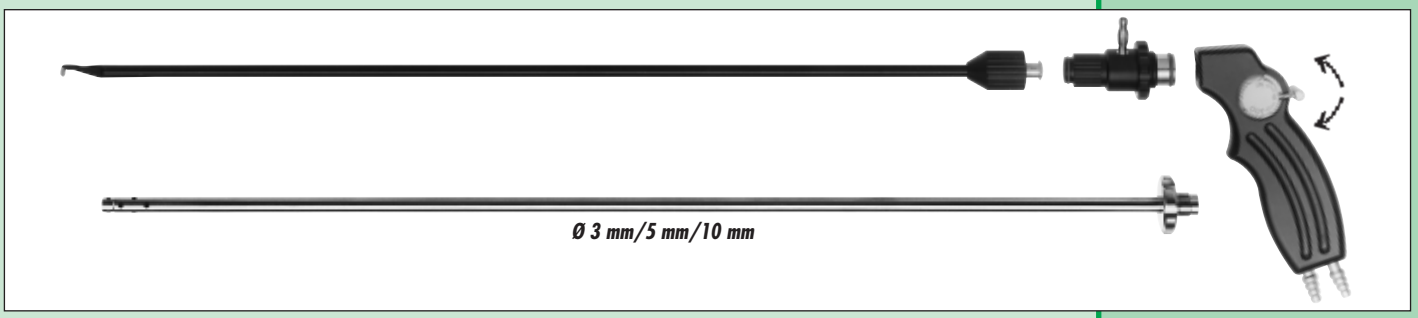
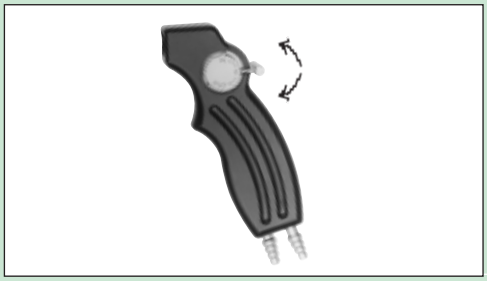
SUCTION- AND IRRIGATION

Products	Order-No.	Description

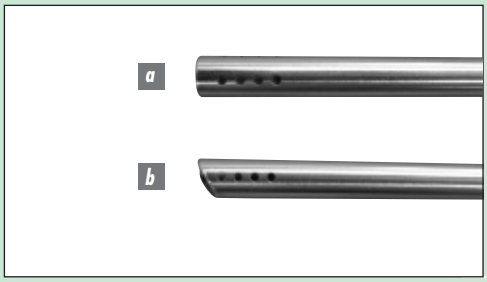




429-80040

Suction-/Irrigation-Handle

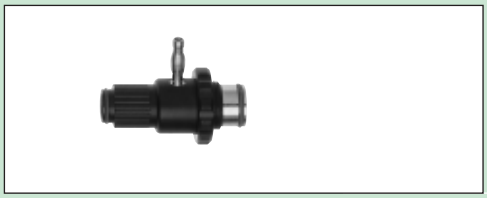
Ergonomic handle
Slight swivelling
2 ways slide-valve
Tube connections



Suction-/Irrigation Tubes for Handle (Order-No. 429-80040)

Working length: 330 mm

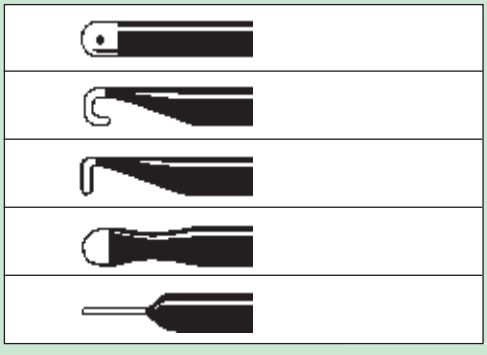
429-80044 Tube Ø 3 mm
a 429-80042 Tube Ø 5 mm
b 429-80038 Tube Ø 5 mm distal oblique for magnetic trocars
429-80043 Tube Ø 10 mm



429-80041

HF-Electrode-Adapter for Handle (Order-No. 429-80040)

360° rotable

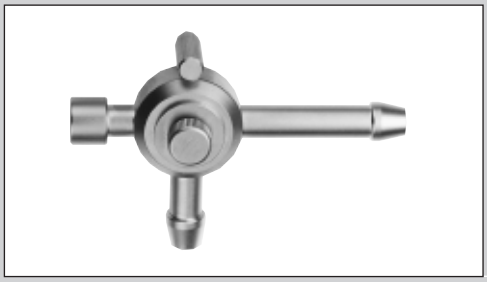
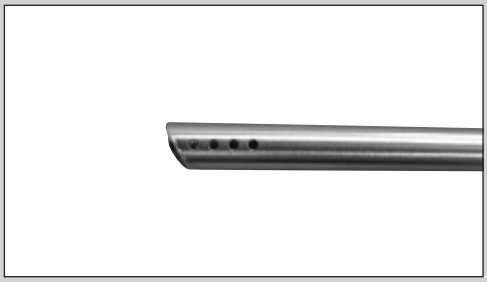
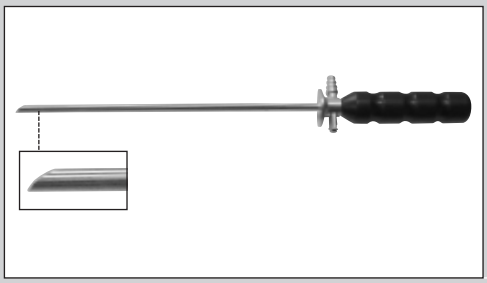


Electrodes with Channel

Working length: 330 mm

429-80045 Button electrode
429-80046 J- Hook electrode
429-80047 L- Hook electrode
429-80048 Spatula electrode
429-80049 Needle electrode

SUCTION- AND IRRIGATION

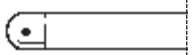
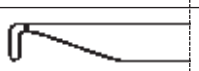
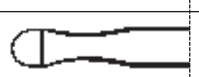
Products	Order-No.	Description
	429-80035	***Standard Suction-/Irrigation Pistol Handle*** Connection M8 x 1
	***429-80039***	***Suction-/Irrigation Handle*** Ø 5 mm With sliding valve and tube connection Connection M8 x 1
		Suction-/Irrigation Tube for M8 x 1 Working length: 330 mm
	429-80034	Tube Ø 3 mm
	429-80032	Tube Ø 5 mm
	429-80033	Tube Ø 10 mm
	***429-80036***	***Suction-/Irrigation Tube for M8 x 1*** Working length: 330 mm Tube Ø 5 mm distal oblique for magnetic trocars
		***Irrigation Trocar for Glass Bottle***
	670-96330	0.5 l
	670-96331	1.0 l

HF-MONOPOLAR INSTRUMENTS

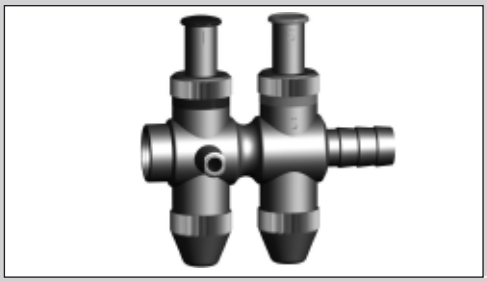
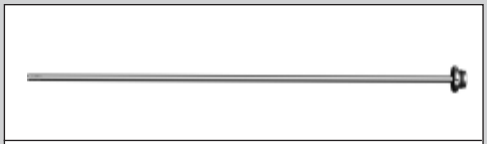
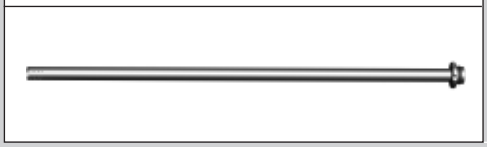
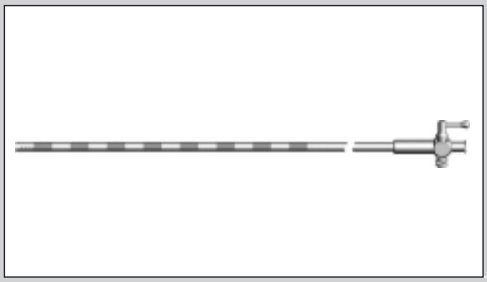
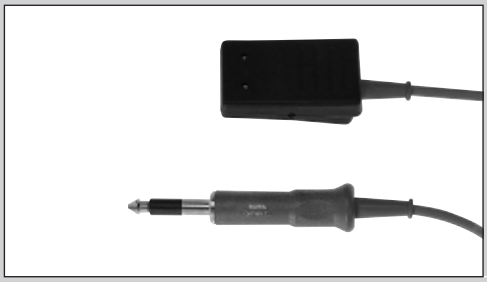
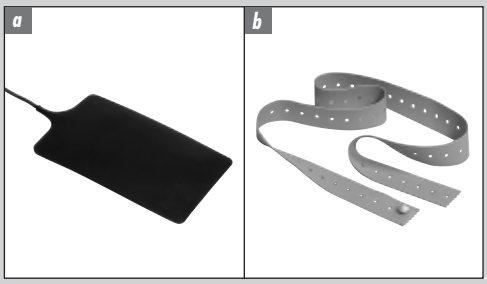
Products	Order-No.	Description	Order-No.	Description
		Monopolar Standard Electrodes without Channel Working length: 330 mm		***Monopolar Electrodes with Trumpet Valve*** Working length: 330 mm
	a ***429-80061***	a Button electrode	b ***429-80001***	b Button electrode
	a ***429-80062***	a J-Hook electrode	b ***429-80004***	b J-Hook electrode
	a ***429-80063***	a L-Hook electrode	b ***429-80003***	b L-Hook electrode
	a ***429-80064***	a Spatula electrode	b ***429-80002***	b Spatula electrode
	a ***429-80065***	a Needle electrode	b ***429-80025***	b Needle electrode

Ceramic

Example: Needle Electrode

		Monopolar Standard Electrodes without Channel Working length: 330 mm	Ceramic
	***429-80071***	Button electrode	
	429-80072	J-Hook electrode	
	***429-80073***	L-Hook electrode	
	***429-80074***	Spatula electrode	
	429-80075	Needle electrode	

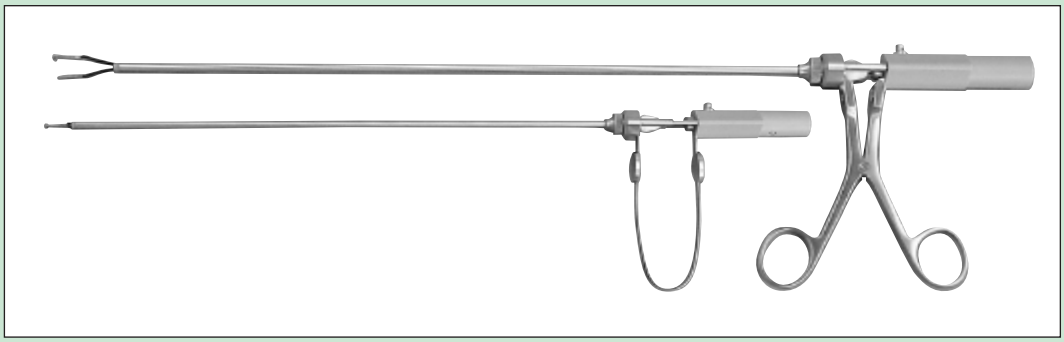
ACCESSORIES

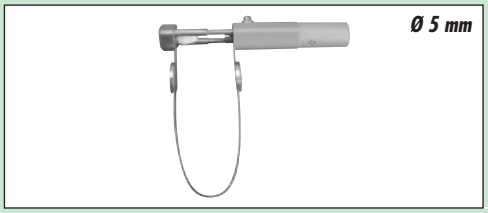
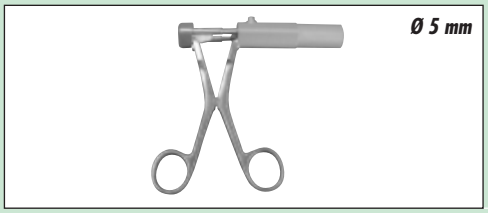
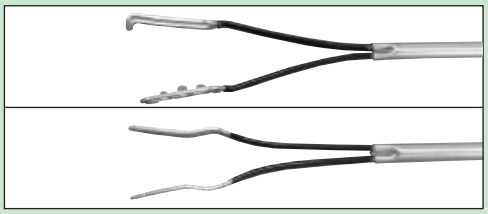
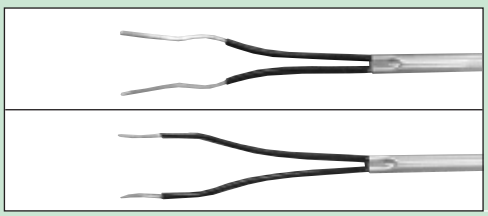
Products	Order-No.	Description
	***429-80050***	***Suction- Irrigation-Handle*** Large tube connector Sidewise Luer-Lock connection
	***429-80051***	***Suction- Irrigation-Tube Ø 5 mm*** Working Length: 330 mm For Order-No.: ***429-80050***
	***429-80052***	***Suction- Irrigation-Tube Ø 10 mm*** Working Length: 330 mm For Order-No.: ***429-80050***
	***429-80055***	***Suction- Irrigation-Cannula Ø 5 mm*** Ø 5 mm Working Length: 330 mm Luer connection Stop cock
	***670-91320***	***Connection Cable for Disposable Neutral Electrodes*** 5 m
	***a*** ***670-91310*** ***b*** ***670-91311***	***a*** ***Neutral Electrode*** Reusable ***b*** ***Rubber Band*** For reusable neutral electrodes 1 m

MGB

BIPOLAR COAGULATION INSTRUMENTS

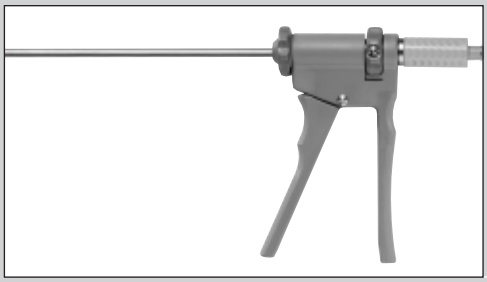
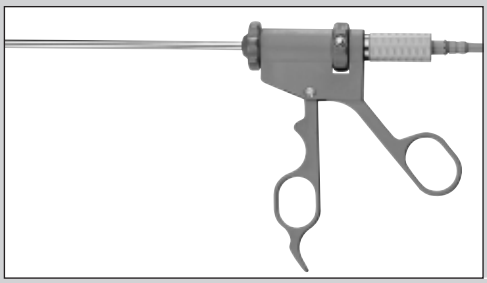
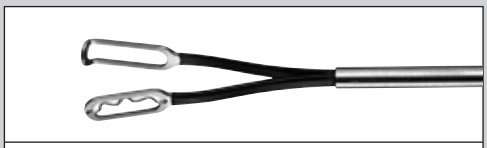
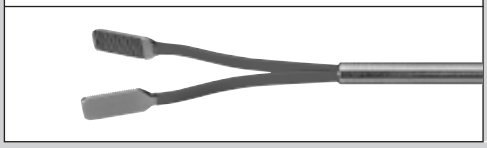
Ø 5 mm



Products	Order-No.	Description
 Ø 5 mm	429-70050 (Picture)	Spring Handle Standard plug Connection Cable for Bipolar Tweezers
 Ø 5 mm	429-70060	Scissors Handle Standard plug
	429-70070	Shaft Stainless steel
	429-70071	Tubal Coagulation Forceps Electrode Width: 4.5 mm
	429-70072	Plate Electrode Width: 3.0 mm
	429-70073	Tweezers Electrode Width: 1.5 mm With short isolation
	429-70074	Tweezers Electrode Width: 1.5 mm With long isolation

BIPOLAR COAGULATION INSTRUMENTS

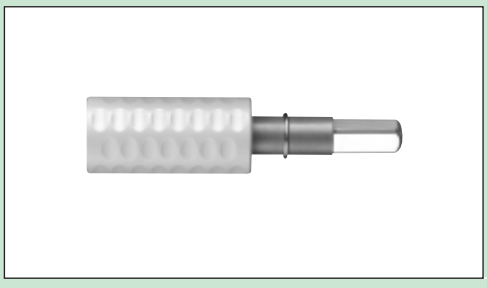
Ø 5 mm

Products	Order-No.	Description
	429-81005	***Coagulation Forceps with Standard Handle*** 360° rotable Max. output: 60 W Working length: 340 mm Detachable Inclusive shaft
	429-81023	***Coagulation Forceps with Ring Handle*** 360° rotable Max. output: 60 W Working length: 340 mm Detachable Inclusive shaft
	429-81007	***Tubal Coagulation Forceps Electrode*** Rippled bar
	429-81008	***Plate Electrode*** Tong-type bit: 3 mm
	429-81011	***Tweezers Electrode*** Tweezers tip: 1 mm
	429-81024	***Kleppinger Electrode*** Serrated
	429-81025	***Maryland Dissector*** Curved

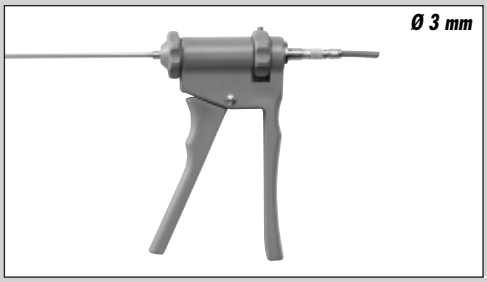
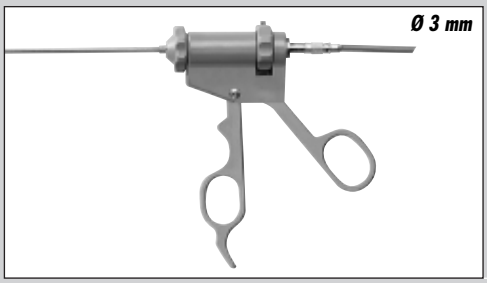
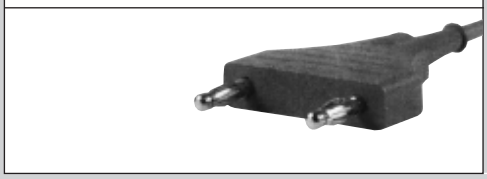
MGB

BIPOLAR COAGULATION INSTRUMENTS

Ø 5 mm

Products	Order-No.	Description
	429-81015	**Scissors Electrode with TC Blade** Curved
	429-81026	**Scissors Electrode** Curved
	429-81010	**Bipolar Connection Cable** To MGB-, Martin-, Berchtold-units For Order-No.: **429-81005, 429-81023**
	429-81021	**Bipolar Connection Cable** To Erbe-units For Order-No.: **429-81005, 429-81023**
	429-81019	**Bipolar Connection Cable** To Codman-units For Order-No.: **429-81005, 429-81023**
	429-81020	**Bipolar Connection Cable** To Valleylab-units For Order-No.: **429-81005, 429-81023**
	429-81018	**Adapter for Bipolar Cable with Flat Plug** E.g. usable with MGB-cable **(Order-No.: 670-91331)** For Order-No.: **429-81005, 429-81023**

BIPOLAR COAGULATION INSTRUMENTS

Products	Order-No.	Description
		Ø 3 mm
 Ø 3 mm	*429-81305*	***Bipolar Micro Coagulation Forceps*** With standard handle Working length: 340 mm
 Ø 3 mm	*429-81323*	***Bipolar Micro Coagulation Forceps*** With ring handle Working length: 340 mm
	429-81311	***Micro Tubal Coagulation Forceps Electrode*** Rippled bar
	429-81308	***Micro Tweezers Electrode*** Tweezers tip: 1 mm
	429-81310	***Bipolar Connection Cable for Ø 3 mm Instruments*** To MGB-, Martin-, Berchtold- units For Ø 3 mm-handles For Order-No.: ***429-81305, 429-81323***
	*429-81320*	***Bipolar Connection Cable for Ø 3 mm Instruments*** To Valleylab-units For Ø 3 mm-handles
	429-81319	***Bipolar Connection Cable*** For Codman-units For Ø 3 mm-handles For Order-No.: ***429-81305, 429-81323***
	429-81321	***Bipolar Connection Cable*** For Erbe-units For Ø 3 mm-handles For Order-No.: ***429-81305, 429-81323***

MGB

BIPOLAR COAGULATION FORCEPS

Products	Order-No.	Description

Ø 5 mm

Consist of:

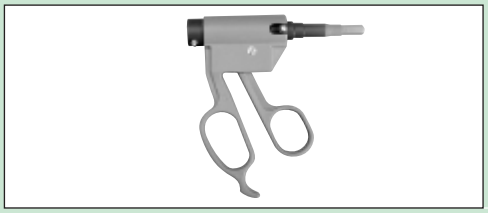
Handle ***(Order-No.: 429-81500)***

Shaft ***(Order-No.: 429-81510)***

Inserts ***(Order-No.: 429-81540, 429-81520, 429-81530)***

Bipolar Instrument

For active, precise opening and closing by isolated inserts
360° rotable



429-81500

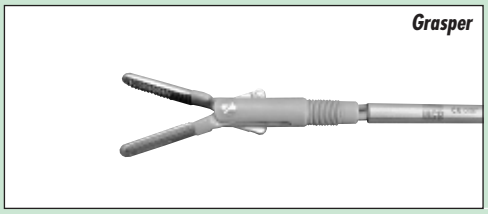
Handle

Standardized plug
PEEK polymer

429-81510

Shaft

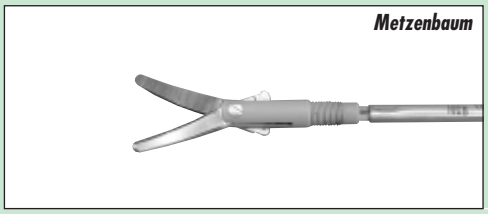
Working length: 340 mm
Ø 5 mm



429-81520

Insert Bipolar Grasping Forceps

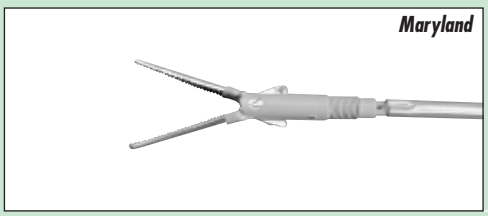
With join



429-81530

Insert Bipolar Scissors

With join



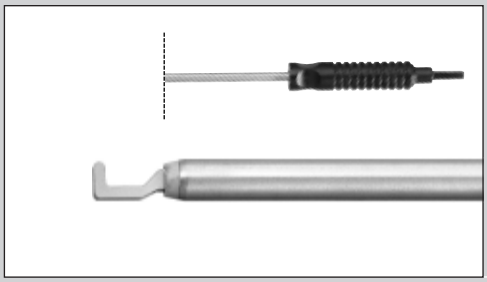
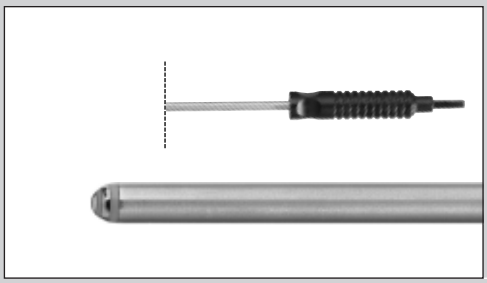
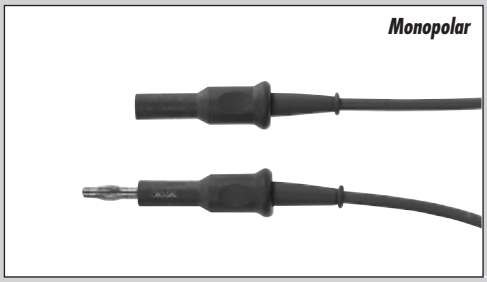
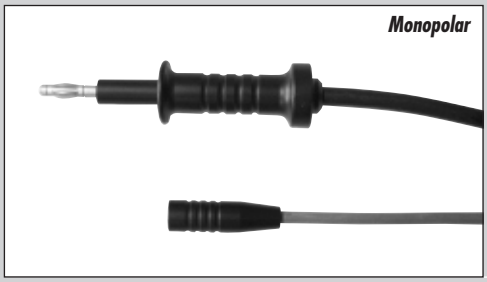
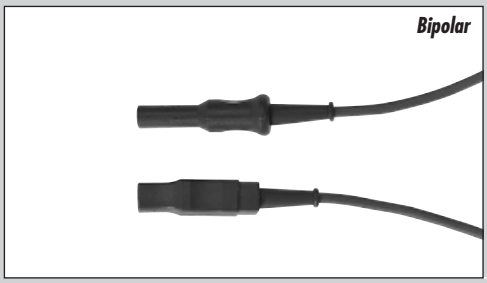
429-81540

Insert Bipolar Dissector

With join

BIPOLAR ELECTRODES

Ø 5 mm

Products	Order-No.	Description
	*429-81031*	*Bipolar L-Hook Electrode*
	*429-81032*	*Bipolar Cup Electrode*
 *Monopolar*		*Connection Cable for Monopolar MIS-Instruments*
	670-91330 (Picture)	To MGB-, Martin-, Berchtold- units
	670-91333	To Valleylab-units
 *Monopolar*		*Connection Cable for MGB-Resectoscopes*
	670-91332 (Picture)	To MGB-, Martin-, Berchtold- units
	670-91337	To Valleylab-units
	670-91336	To Erbe-units
 *Bipolar*		*Connection Cable for Bipolar Tweezers*
	670-91331 (Picture)	To MGB-, Martin-, Berchtold- units
	670-91334	To Valleylab-units
	670-91335	To Erbe-units

MGB

ML-G INSUFFLATOR

Order-No.: 670-95600 (220 V)
670-95601 (110 V)

40 Liter/min Insufflation

Specification

The latest computer controlled technology for safe and precise insufflation. 4 unique selectable flow standards for exact control of intermittent insufflation (2 l, 8 l, 40 l/min automatic mode). The adjustable preselection of intraabdominal pressure (1-30 mm/Hg) meets every requirement (paediatric, gynaecology, general laparoscopy and bariatric procedure).

High Safety

The *ML-G* guarantees the highest safety based on electronical control. Additionally, it covers all functions mechanically. Abdominal overpressure will be automatically reduced through integrated gas valve.

Clear Arrangement

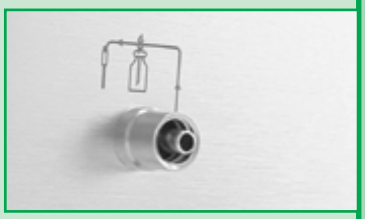
Clear arrangement is the essential characteristics of the *ML-G*. Its display gives a quick overview of the rated and actual values of gas flow- and-pressure. The setting of the flow rate is made by a simple touch of a button. The gas volume is shown by a seperate display.

Compatibility

ML-G is compatible to central CO_2 supply or different kind of gas bottles.

Insufflation medium: CO_2 Insufflation Rate

Low: approx. 2 l/min.
Med: approx. 8 l/min.
High: approx. 40 l/min.
Auto: automatic flow



Irrigation Included

The *ML-G* has a gas pressure Irrigation function, which allows liquids irrigation. In combination with the MGB-Suction-/Irrigation instrument, simple handling and high flow Irrigation is guaranteed.

Voice Feedback

All settings are confirmed acoustically through an adjustable speech module.

GENERAL

Order-No.	
670-95600	ML-G Insufflator 220 V
670-95601	ML-G Insufflator 110 V
Main Connection	
Power supply	100 - 120 V/200 - 240 V
Frequency	50 - 60 Hz
Power consumption	45 VA
Fuse (~100 -120 V)	2 x T 1.0 A/250 V (IEC 127)
Fuse (~200 -240 V)	2 x T 2.0 A/120 V (IEC 127)
Classification	
Safety class	1 with potential equalization connection
Protection	IP X 1
Type	BF
Approval	CE
Dimension and Weight	
Dimension (w/h/d)	400 x 200 x 400 mm (without gas bottle)
Weight	17.6 kg
Operating Conditions	
Operating temperature	+10° C ~ +40° C
Operating humidity	30 % ~ 75 %
Extent of Delivery	
ML-G	■ Silicone tube set for Insufflation ■ Disposable Filter for Insufflation ■ Adapter for Insufflation ■ Silicone tube set for Irrigation ■ Power cable
	■ User manual
Interface	
To patient	■ Gas connection: conus
CO_2 connection	■ Irrigation connection: Luer (male) ■ DIN

SPECIFICATION

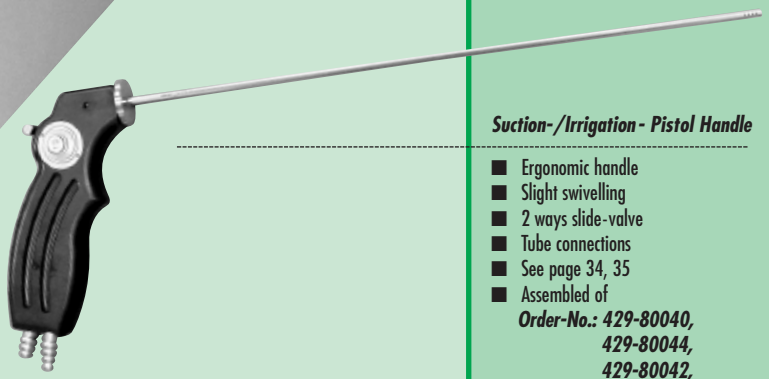
Main Unit	
Insufflation medium: CO_2 Insufflation rate	■ **Low:** approx. 2 l/min ■ **Med:** approx. 8 l/min ■ **High:** approx. 40 l/min ■ **Auto:** automatic flow
Intra-abdominal working pressure	■ 0-30 mm Hg infinitely selectable and limitable ■ Maximal pressure of bottle: 80 bar ■ Display of critical low bottle pressure ■ Irrigation P+: 800 mbar

Order-No.	*Accessories*
670-95300	Silicone tube set for Insufflation
670-95310	CO_2 gas bottle 1l (empty)
670-95311	Key for CO_2 gas bottle connection
670-95313	High pressure tube, GI:DIN, bottle: DIN
670-95314	High pressure tube, GI:DIN, bottle: PIN
670-95316	High pressure tube, GI:DIN, bottle: ITALY
670-95341 (100 mm) ***670-95342 (120 mm)*** ***670-95340 (150 mm)***	Veress needle, Ø 2 mm
675-11203	Gas-filter, 25 pieces
675-11202	Adapter for Insufflation
670-95301	Silicone tube set for Irrigation
670-96330	Irrigation trocar, short (0.5 l)
670-96331	Irrigation trocar, long (1.0 l)
670-96325	Irrigation bottle holder for cart
670-96310	Filter for Irrigation, 10 pieces

MGB

PUMP FOR LAPAROSCOPY

Order-No.: 670-96100



Specification

- Simple and noiseless operation
- Easy to load latex-free tube set
- High safety
- Suction included
- To use with fluid bag

Suction-/Irrigation- Pistol Handle

- Ergonomic handle
- Slight swivelling
- 2 ways slide-valve
- Tube connections
- See page 34, 35
- Assembled of
  Order-No.: 429-80040, 429-80044, 429-80042, 429-80043

GENERAL

Order-No.	
670-96100	Laparoscopy-Pump
Main Connection	
Power supply	■ ~100 V AC ■ ~110-115 V AC ■ ~220-240 V AC
Frequency	50-60 Hz
Power consumption	55 VA
Fuse	2 x T 2, 0A/250 V
Classification	
Safety class	1 with potential equalization connection
Protection	IP 41
Type	BF
Approval	CE
Dimension and Weight	
Dimension (w/h/d)	280 x 137 x 408 mm
Weight	5.9 kg
Extent of Delivery	
Laparoscopy-Pump	■ Main power cable
	■ User manual

SPECIFICATION

Main Unit	
Max. flow rate Irrigation	1.8 l/min. (± 10 %)
Suction	1.8 l/min. (+ 0.4/-0.1 l/min.)
Max. pump capacity	400 mm Hg (± 50 mm Hg)
Suction	Between -50 kpa and -60 kpa

Order-No.	***Accessories***
670-96410	Limited use tubing set
670-96420	Disposable tubing set (10 pcs.)
670-96460	10 x membrane for pressure chamber for limited use tubing set

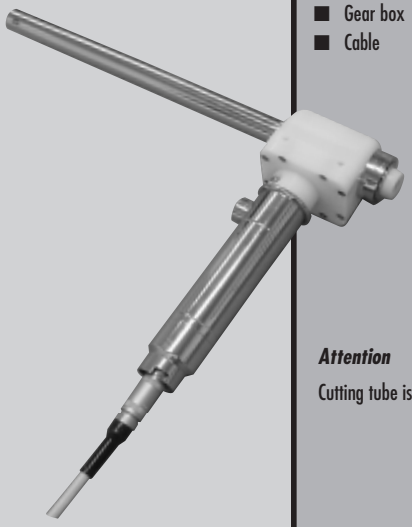
MGB

MORCELLATOR »SET POWER«

Order-No.: 429-10100

Morcellator »Set Power«

- Uncomplicated and time-saving tissue Morcellation
- Riskless intraabdominal Morcellation of large tissues
- Tissue cylinders can be removed from Myomas, Uteri, Renal and Splenic tissues etc. by motorized rotation of the SET-POWER in a continuous and precise mode
- SET-POWER is operated by mains connection
- Constant torsional moment: no decrease in performance (when treating big and hard Myomas)
- Maintenance-free world power supply (100-240 V)
- Motor, gear and Morcellator tubes are connected by rapid coupling
- Function ON/OFF at the motor handle
- Ergonomically shaped handle guarantees optimal handling
- Useable for cutting tubes toothed edge (10 mm/15 mm/20 mm)
- Operating display of SET-POWER in the controlling unit
- Gear box autoclaveable at 134 °C
- Drive Motor autoclaveable at 134 °C by means of protective caps
- Cable length 3 m



Set consists of:

- Control Unit
- Motor
- Protection cap for steam sterilizer
- Gear box
- Cable

Attention

Cutting tube is not content of this set!

GENERAL

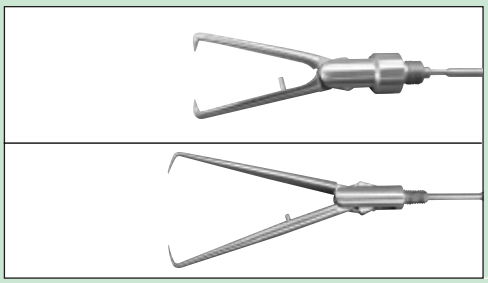
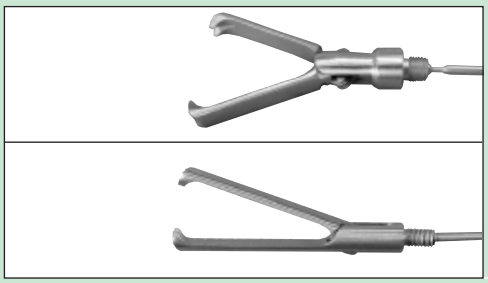
Order-No.	
429-10100	Morcellator »Set Power«
Main Connection »Set Power«	
Power supply	~100 - 240 V AC
Frequency	50 - 60 Hz
Power consumption	110 VA
Classification »Set Power«	
Safety class	1 with potential equalization connection
Type	BF
Approval	CE
Dimension and Weight »Control Unit«	
Dimension (w/h/d)	350 x 90 x 290 mm
Weight	3.6 kg
Extent of Delivery »Set Power«	
Morcellator »Set Power«	■ Control unit ■ Gear box ■ Handbox ■ Cable

SPECIFICATION

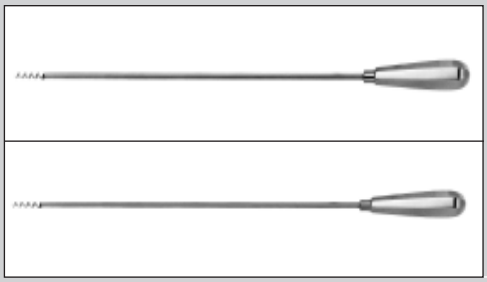
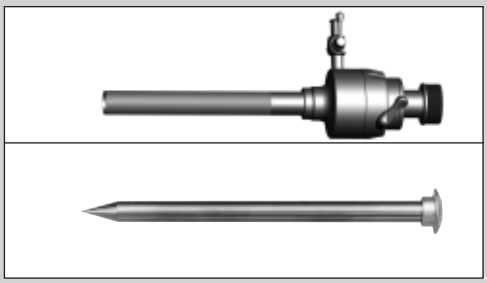
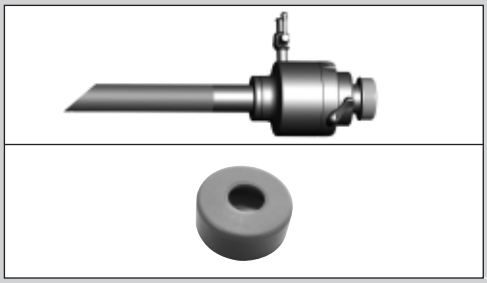
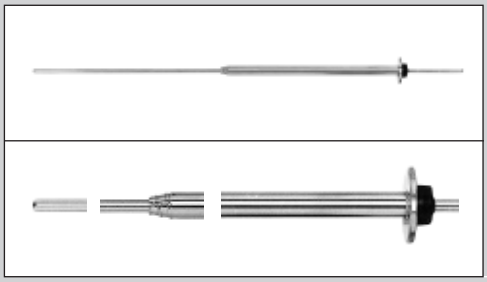
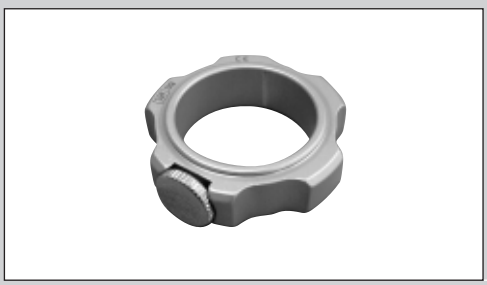
Dimension and Weight »Motor/Gear box«	
Dimension (w/h)	175 x 41 mm
Weight	0.94 kg

Order-No.	***Accessories***
429-10300	Cutting tube Ø 10 mm (5 mm Instr.)
429-10400	Cutting tube Ø 15 mm (10 mm Instr.)
429-10500	Cutting tube Ø 20 mm (10 mm Instr.)
429-90021	Sealing caps for Ø 15 mm/Ø 20 mm cutting tubes
429-90020	Sealing caps for Ø 10 mm cutting tubes

ACCESSORIES FOR MORCELLATOR

Products	Order-No.	Description	
		Cutting Tubes Toothed Edge	***Working Length: 245 mm***
	429-10300	■ Ø 10 mm (5 mm Instr.)	
	429-10400	■ Ø 15 mm (10 mm Instr.)	
	429-10500	■ Ø 20 mm (10 mm Instr.)	
	429-90021	■ Sealing caps for Ø 15, Ø 20 mm cutting tubes	
	429-90020	■ Sealing caps for Ø 10 mm cutting tubes	
		***Insert Tenaculum***	
	429-75282/44	■ Ø 10 mm for 440 mm shafts	
	429-75283/44	■ Ø 5 mm for 440 mm shafts	
			
	a ***429-75281/44*** (For 440 mm shafts)	***a*** ***Insert Claw Forceps Ø 10 mm*** ■ 2 to 3 teeth ■ Sharp ■ Double action	
	b ***429-75171/44*** (For 440 mm shafts)	***b*** ***Insert Claw Forceps Ø 5 mm*** ■ 2 to 3 teeth ■ Sharp ■ Double action	
	429-77030	***GRP-Laparoscopic Handle Polymer with Ratchet*** ■ With HF-connection ■ Fibre-reinforced	
	429-75061/44	***Insulated Shaft with Shaft knob Ø 10 mm*** ■ Working length: 440 mm	
	429-75065/44	***Insulated Shaft with Shaft knob Ø 5 mm*** ■ Working length: 440 mm	

ACCESSORIES FOR MORCELLATOR

Products	Order-No.	Description
	*429-10600*	***Myoma Drill*** ■ Ø 10 mm ■ Working length: 420 mm
	429-10650	■ Ø 5 mm ■ Working length: 420 mm
	*429-40022*	***Flap Valve Trocar Sleeve*** ■ Ø 11 mm ■ Working length: 101 mm
	429-40133	***Conical Trocar*** ■ Ø 11 mm ■ Working length: 193 mm
	*429-40041 (Ø 15 mm)* *429-40042 (Ø 20 mm)*	***Flap Valve Trocar Sleeve*** ■ Working length: 110 mm ■ Working length: 120 mm
	429-90022 (2 pcs.) *429-90021 (2 pcs.)* *429-90020 (2 pcs.)*	***Sealing Caps*** ■ Ø 10 mm/Ø 10.5 mm/Ø 11.0 mm ■ Ø 15 mm ■ Ø 20 mm
	*429-23212*	***Dilatation Sleeve with Rod*** ■ Ø 11 mm - Ø 15 mm
	429-23215	■ Ø 11 mm - Ø 20 mm
	*429-10250*	***Hand Wheel*** ■ For Ø 10 mm/Ø 15 mm and Ø 20 mm cutting tubes

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